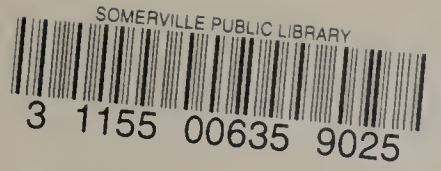


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Geotechnical
Environmental and
Water Resources
Engineering

50 Tufts Street Data (Through February 19, 2007)

Tufts Street, Somerville, Massachusetts

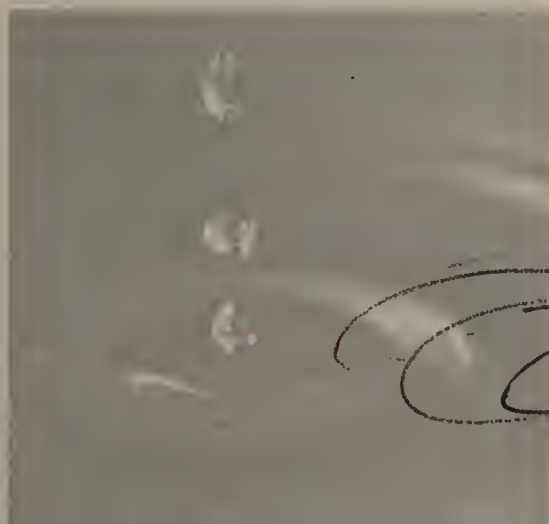
Submitted to:
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Submitted by:
GEI Consultants, Inc.
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Winchester, MA 01890
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March 19, 2007

Project 045162

LOCAL
HISTORY
354
353
GEI



Helen S. Gladstone, P.E., LSP
Vice President

50 Tufts Street Data (Through February 19, 2007)

1. Soil

- 1.1. Figure: Soil Chemical Testing Results
- 1.2. Chemical Testing Results - Soil

2. Groundwater

- 2.1. Figure: Groundwater Chemical Testing Results
- 2.2. Chemical Testing Results - Groundwater

3. Soil Gas

- 3.1. Figure: Soil Gas Chemical Testing Results
- 3.2. Chemical Testing Results – Soil Gas

4. Indoor Air

- 4.1. Indoor Air Chemical Testing Results (selected homes on Tufts Street)
- 4.2. Indoor Air Chemical Testing Results (selected homes on Dell, Knowlton, and 60 Tufts Street)
- 4.3. Indoor Air Chemical Testing Results (selected homes and buildings on Franklin and Alston Street)

5. Capuano Early Childhood Center

- 5.1. Figure of Capuano Early Childhood Center
- 5.2. Capuano Early Childhood Center-Indoor Air Chemical Testing Results

1. Soil

1.1. Figure: Soil Chemical Testing Results

1.2. Chemical Testing Results - Soil



LEGEND

- Monitoring well with soil gas sample port installed by GEI, January 2007 (Approximate Location)
- Monitoring well installed by Sanborn Head Associates, 2002
- GEO-1 Monitoring well installed by Geosight, June 2004
- SB1, GEO-7 Soil boring advanced by Geosight, August 2004
- MW101 Monitoring well installed by GEI Consultants, Inc., May 2006
- MW-1 Monitoring well installed previously, date unknown
- Catch basin
- Concrete
- Drain manhole
- Electric handhole
- Electric manhole
- Gas gate
- Misc. gate
- Hydrant
- Manhole
- Monitoring well
- Sewer manhole
- Utility pole
- Utility pole w/light
- Water gate
- Fire alarm box
- Chain link fence

- CHEMICAL DATA TABLE NOTES**
- Concentrations are reported in mg/kg.
 - Concentrations of PCE and TCE are shown for each location. Concentrations of other analytes are shown only where they exceeded the MCP S1/GW2 Method 1 standard.
 - MCP = Massachusetts Contingency Plan 310 CMR 40.0000 with revisions effective April 3, 2006.
 - PCE = TETRACHLOROETHYLENE
 - TCE = TRICHLOROETHYLENE
 - DCE, CIS, 1,2 = DICHLOROETHENE, CIS, 1,2
 - Values in bold exceed MCP S1/GW-2 Method standard
 - J = the reported result is below the laboratory testing limit and is estimated.

- GENERAL NOTES**
- Horizontal control for this plan was established by GPS and is based on the North American Datum of 1983.
 - Vertical control for this plan was established by GPS and is based on the North American Vertical Datum of 1988.
 - Street and property lines based on Somerville Assessors Maps and are best fit relative to the location of the 50 Tufts St. building.
 - Monitoring well locations and elevations were established by an on the ground survey by BSC Group, Inc. on May 31, 2006. PVC and ground elevations were established by trigonometric methods using a total station.

50 Tufts Street
Somerville, Massachusetts

GEI
Consultants

SOIL CHEMICAL TESTING
RESULTS

Project 04516-0March 2007Fig. 1

Table 1
Chemical Testing Results - Soil Samples
50 Tufts Street
Somerville, MA

Location Name: Sample Depth (ft bgs): Sample Name: Sample Date: Collected By: Geologic Unit:			GEO-1		GEO-4	SH-MW1	SH-MW2	SH-MW3	SH-1	SH-2	SH-3	SH-4	SH-5
			0-2 GEO-1 8/12/04 Geolnsight Sand	6-8 GEO-1 8/12/04 Geolnsight Sand	11-13 GEO-4 8/13/04 Geolnsight Sand	10-12 SH MW1 S3 7/3/02 SHA Silt and Clay	15-17 SH MW2 S4 7/3/02 SHA Silt and Clay	15-17 SH MW3 S4 7/3/02 SHA Clay and Silt	12-14 SH1 S4 6/21/02 SHA Sand	4-5 SH2 S2A 6/21/02 SHA Sand	3-4 SH3 S1D 6/21/02 SHA Sand and Silt	8-12 SH4 S3 6/21/02 SHA Sand	4-8 SH5 S2 6/21/02 SHA Sand and Silt
Analyte	Method	Units											
Volatile Organic Compounds (VOCs)	8260B	mg/kg											
Dichloroethane, 1,1-			< 0.067	< 0.095	< 0.056	<0.001	< 0.160	< 0.0013	<0.820	< 1.20	< 0.960	< 0.08	< 0.990
Methylene Chloride			< 0.673	< 0.950	< 0.556	< 0.0074	< 1	< 0.0088	< 5.5	< 1.20	< 0.960	< 0.540	< 6.6
Tetrachloroethylene (PCE)			2.45	8.07	0.111	0.01	23	0.16	1500	1800	140	4.8	61
Trichloroethylene (TCE)			0.164	1.12	< 0.0556	< 0.00074	0.32	0.0062	< 0.55	2.0	< 0.640	1.4	< 0.660
Total VOCs			2.76	10.5	0.191	0.0137	23.6	0.175	1500	1800	140	6.57	61
Volatile Petroleum Hydrocarbons (VPH)	MAVPH	mg/kg	NT	NT	NT	NT	NT	NT	300	833	43	<1.75	NT
C5-C8 Aliphatics									<25.9	<29.9	<26.8	<1.75	
C9-C12 Aliphatics									<25.9	<29.9	<26.8	<1.75	
C9-C10 Aromatics													
Extractable Petroleum Hydrocarbons (EPH)	MAEPH	mg/kg	NT	NT	NT	NT	NT	NT	<10.9	<68.2	<11.2	<10.6	<12.8
C9-C18 Aliphatics									<10.9	144	<11.2	<10.6	<12.8
C19-C36 Aliphatics									<10.9	916	86.4	<10.6	41.0
C11-C22 Aromatics													
Other			NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Cyanide Reactivity	SW846 CHAP 7	mg/kg											
Solids, Percent	EPA 160.3 M	%											
Specific Conductivity	EPA 120.1M	umhos/cm											
Sulfide Reactivity	SW846 CHAP 7	mg/kg											
Total Organic Carbon	CORP ENG 81M/SW9060M	mg/kg											
pH	SW846 9045	su											

- General Notes:**
- Generally, only analytes detected in at least one sample are reported here. For a complete list of analytes see the laboratory data sheets.
 - "<" = The analyte was not detected at a concentration above the specified limit.
 - MCP = 310 CMR 40.0000 Massachusetts Contingency Plan with revisions effective April
 - Method 1 Standards (e.g., S1/GW2) are cited from the MCP.
 - ft bgs = feet below ground surface.
 - mg/kg = milligrams per kilogram.
 - NS = No MCP standard has been established for this analyte.
 - SHA = Sanborn Head & Associates.
 - Results in bold exceed the applicable Method 1 S1/GW2 Standard.
 - ND = The analyte was not detected above the laboratory reporting limit. See the laboratory data sheets for the laboratory reporting limit.
 - NT = Not tested.

Qualifying Note:
J The reported result is below the laboratory reporting limit and is estimated.

Table 1
Chemical Testing Results - Soil Samples
50 Tufts Street
Somerville, MA

Location Name:			SH-B1	MW101					MW102		MW103		
Sample Depth (ft bgs):			8-12	2-3	13.5-15.5	15.5-17.5	17.5-19.5		2-3	12.5-14.6	2-3	6-8	14-16
Sample Name:			SHB1 S3	MW101 S1	MW101 S4	MW101 S5	MW101 S6		MW102 S1	MW102 S5	MW103 S1	MW103 S2	MW103 S6
Sample Date:			6/21/02	4/27/06	5/1/06	5/1/06	5/1/06		4/27/06	5/1/06	4/27/06	5/1/06	5/1/06
Collected By:			SHA	GEI	GEI	GEI	GEI		GEI	GEI	GEI	GEI	GEI
Geologic Unit:			Sand	Sand and Gravel	Sand	Sand	Sand		Sand and Gravel	Sand and Gravel	Sand and Gravel	Sandy Silt	Sand
Analyte	Method	Units											
Volatile Organic Compounds (VOCs)	8260B	mg/kg											
Dichloroethane, 1,1-			< 0.100	< 0.13	< 0.1	< 0.1	< 0.093	< 0.12	< 0.083	< 0.12	< 0.091	< 0.082	< 0.082
Methylene Chloride			< 0.100	< 0.130	< 0.1	< 0.1	< 0.093	< 0.12	< 0.083	< 0.12	< 0.091	< 0.082	< 0.082
Tetrachloroethylene (PCE)			7.8	0.989	0.0649 J	0.054 J	0.0699 J	< 0.12	0.164	< 0.12	< 0.091	0.722	0.722
Trichloroethylene (TCE)			4.4	0.358	< 0.1	< 0.1	< 0.093	< 0.12	< 0.083	< 0.12	< 0.091	< 0.082	< 0.082
Total VOCs			16.9	1.42	0.0649 J	0.054 J	0.0699 J	ND	0.16	ND	ND	ND	0.72
Volatile Petroleum Hydrocarbons (VPH)	MAVPH	mg/kg		NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
C5-C8 Aliphatics			2.95										
C9-C12 Aliphatics			<2.15										
C9-C10 Aromatics			<2.15										
Extractable Petroleum Hydrocarbons (EPH)	MAEPH	mg/kg		NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
C9-C18 Aliphatics			<11.1										
C19-C36 Aliphatics			<11.1										
C11-C22 Aromatics			<11.1										
Other			NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Cyanide Reactivity	SW846 CHAP 7	mg/kg											
Solids, Percent	EPA 160.3 M	%											
Specific Conductivity	EPA 120.1M	umhos/cm											
Sulfide Reactivity	SW846 CHAP 7	mg/kg											
Total Organic Carbon	CORP ENG 81M/SW9060M	mg/kg											
pH	SW846 9045	su											

- General Notes:**
- Generally, only analytes detected in at least one sample are reported here. For a complete list of analytes see the laboratory data sheets.
 - "<" = The analyte was not detected at a concentration above the specified limit.
 - MCP = 310 CMR 40.0000 Massachusetts Contingency Plan with revisions effective April
 - Method 1 Standards (e.g., S1/GW2) are cited from the MCP.
 - ft bgs = feet below ground surface.
 - mg/kg = milligrams per kilogram.
 - NS = No MCP standard has been established for this analyte.
 - SHA = Sanborn Head & Associates.
 - Results in bold exceed the applicable Method 1 S1/GW2 Standard.
 - ND = The analyte was not detected above the laboratory reporting limit.
See the laboratory data sheets for the laboratory reporting limit.
 - NT = Not tested.

Qualifying Note:
J The reported result is below the laboratory reporting limit and is estimated.

Table 1
Chemical Testing Results - Soil Samples
50 Tufts Street
Somerville, MA

Location Name: Sample Depth (ft bgs): Sample Name: Sample Date: Collected By: Geologic Unit:			MW104			MW105		MW106			
			0-5	5-10	10-15	2-3	23-25	3	2-4	12-14	16-18
			MW104 S1	MW104 S2	MW104 S3C	MW105 S1	MW105 S9	B106-VAC-GRAB	B106-VAC-COMP	B106(12-14')	045126-B106(16-18')
			5/17/06	5/17/06	5/17/06	4/28/06	5/2/06	1/3/07	1/3/07	1/5/07	1/5/07
			GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI
			Silty Sand	Sandy Silt	Silty Sand	Sand and Gravel	Sand				
Analyte	Method	Units									
Volatile Organic Compounds (VOCs)	8260B	mg/kg						ND	NT	ND	ND
Dichloroethane, 1,1-			< 0.13	< 0.092	1.39	< 0.15	< 0.083				
Methylene Chloride			< 0.13	< 0.092	< 0.100	< 0.15	< 0.083				
Tetrachloroethylene (PCE)			0.949	4.25	0.564	< 0.15	< 0.083				
Trichloroethylene (TCE)			< 0.13	0.093	0.593	< 0.15	< 0.083				
Total VOCs			1.43	4.37	4.77	ND	ND				
Volatile Petroleum Hydrocarbons (VPH)	MAVPH	mg/kg	NT	NT	NT	NT	NT	NT	NT	NT	NT
C5-C8 Aliphatics											
C9-C12 Aliphatics											
C9-C10 Aromatics											
Extractable Petroleum Hydrocarbons (EPH)	MAEPH	mg/kg	NT	NT	NT	NT	NT	NT	NT	NT	NT
C9-C18 Aliphatics											
C19-C36 Aliphatics											
C11-C22 Aromatics											
Other			NT	NT	NT	NT	NT	NT			
Cyanide Reactivity	SW846 CHAP 7	mg/kg							< 1.8	< 1.7	< 1.7
Solids, Percent	EPA 160.3 M	%							85.3	86.7	85.9
Specific Conductivity	EPA 120.1M	umhos/cm							137	1420	883
Sulfide Reactivity	SW846 CHAP 7	mg/kg							< 59	< 58	< 58
Total Organic Carbon	CORP ENG 81M/SW9060M	mg/kg							28200	< 1100	< 1100
pH	SW846 9045	su							6.9	7.1	6.8

- General Notes:**
- Generally, only analytes detected in at least one sample are reported here. For a complete list of analytes see the laboratory data sheets.
 - "<" = The analyte was not detected at a concentration above the specified limit.
 - MCP = 310 CMR 40.0000 Massachusetts Contingency Plan with revisions effective April
 - Method 1 Standards (e.g., S1/GW2) are cited from the MCP.
 - ft bgs = feet below ground surface.
 - mg/kg = milligrams per kilogram.
 - NS = No MCP standard has been established for this analyte.
 - SHA = Sanborn Head & Associates.
 - Results in bold exceed the applicable Method 1 S1/GW2 Standard.
 - ND = The analyte was not detected above the laboratory reporting limit.
See the laboratory data sheets for the laboratory reporting limit.
 - NT = Not tested.

Qualifying Note:
J The reported result is below the laboratory reporting limit and is estimated.

Table 1
Chemical Testing Results - Soil Samples
50 Tufts Street
Somerville, MA

Location Name: Sample Depth (ft bgs): Sample Name: Sample Date: Collected By: Geologic Unit:			MW107				MW108			MW109			
			3	2-4	7-9	20-21	3	2-4	7-8	3	2-4	7-9	13-15
			B107-VAC-GRAB	B107-VAC-COMP	B107(7-9')	B107(20-21')	B108-VAC-GRAB	B108-VAC-COMP	B108(7-8')	B109-VAC-GRAB	B109-VAC-COMP	B109(7-9')	B109(13-15')
			1/3/07	1/3/07	1/5/07	1/5/07	1/3/07	1/3/07	1/5/07	1/3/07	1/3/07	1/5/07	1/5/07
			GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	Gei
Analyte	Method	Units											
Volatile Organic Compounds (VOCs)	8260B	mg/kg	ND	NT	ND	0.145	ND	NT	ND	< 0.1	NT	ND	< 0.075
Dichloroethane, 1,1-						< 0.069				< 0.1			< 0.075
Methylene Chloride						< 0.069				0.324			0.242
Tetrachloroethylene (PCE)						< 0.069				< 0.1			< 0.075
Trichloroethylene (TCE)						0.145				0.324			0.245
Total VOCs													
Volatile Petroleum Hydrocarbons (VPH)	MAVPH	mg/kg	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
C5-C8 Aliphatics													
C9-C12 Aliphatics													
C9-C10 Aromatics													
Extractable Petroleum Hydrocarbons (EPH)	MAEPH	mg/kg	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
C9-C18 Aliphatics													
C19-C36 Aliphatics													
C11-C22 Aromatics													
Other			NT				NT			NT			
Cyanide Reactivity	SW846 CHAP 7	mg/kg		< 1.9	< 2.0	< 1.6		< 1.7	< 2.0		< 1.9	< 1.8	< 1.7
Solids, Percent	EPA 160.3 M	%		79.8	76.5	93.3		86.7	76.5		79.9	85.3	89.2
Specific Conductivity	EPA 120.1M	umhos/cm		142	205	214		109	900		109	306	254
Sulfide Reactivity	SW846 CHAP 7	mg/kg		< 63	< 65	< 54		< 58	< 65		< 63	< 59	< 56
Total Organic Carbon	CORP ENG 81M/SW9060M	mg/kg		4090	< 1300	< 1000		4430	6650		5580	4620	< 1100
pH	SW846 9045	su		7.3	7.5	7.1		6.8	7		5.9	9.2	8.2

- General Notes:**
- Generally, only analytes detected in at least one sample are reported here. For a complete list of analytes see the laboratory data sheets.
 - "<" = The analyte was not detected at a concentration above the specified limit.
 - MCP = 310 CMR 40.0000 Massachusetts Contingency Plan with revisions effective April
 - Method 1 Standards (e.g., S1/GW2) are cited from the MCP.
 - ft bgs = feet below ground surface.
 - mg/kg = milligrams per kilogram.
 - NS = No MCP standard has been established for this analyte.
 - SHA = Sanborn Head & Associates.
 - Results in bold exceed the applicable Method 1 S1/GW2 Standard.
 - ND = The analyte was not detected above the laboratory reporting limit.
 - See the laboratory data sheets for the laboratory reporting limit.
 - NT = Not tested.

Qualifying Note:
J The reported result is below the laboratory reporting limit and is estimated.

Table 1
Chemical Testing Results - Soil Samples
50 Tufts Street
Somerville, MA

Location Name: Sample Depth (ft bgs): Sample Name: Sample Date: Collected By: Geologic Unit:			MW110					MW111				MW112		
			3	2-4	7-9	7-9	13-14	3	2-4	7-9	13-15	3	2-4	6-7
			B110-VAC-GRAB	B110-VAC-COMP	B110(7-9')	B100	B110(13-14')	B111-VAC-GRAB	B111-VAC-COMP	B111(7-9')	B111(13-15')	B112-VAC-GRAB	B112-VAC-COMP	B112(6-7')
			1/4/07	1/4/07	1/8/07	1/8/07	1/8/07	1/4/07	1/4/07	1/8/07	1/8/07	1/4/07	1/4/07	1/8/07
			GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI
Analyte	Method	Units												
Volatile Organic Compounds (VOCs) Dichloroethane, 1,1- Methylene Chloride Tetrachloroethylene (PCE) Trichloroethylene (TCE) Total VOCs	8260B	mg/kg	ND	NT	ND	ND	ND	ND	NT	ND	< 0.075 0.0176 J 3.15 0.0469 J 0.0645	ND	NT	ND
Volatile Petroleum Hydrocarbons (VPH) C5-C8 Aliphatics C9-C12 Aliphatics C9-C10 Aromatics	MAVPH	mg/kg	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Extractable Petroleum Hydrocarbons (EPH) C9-C18 Aliphatics C19-C36 Aliphatics C11-C22 Aromatics	MAEPH	mg/kg	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Other Cyanide Reactivity Solids, Percent Specific Conductivity Sulfide Reactivity Total Organic Carbon pH	SW846 CHAP 7 EPA 160.3 M EPA 120.1M SW846 CHAP 7 CORP ENG 81M/SW9060M SW846 9045	mg/kg % umhos/cm mg/kg mg/kg su	NT	< 1.9 81 262 < 62 4380 6.8	< 1.9 77.3 614 < 65 3660 7	< 1.9 77.4 606 < 65 1630 6.5	< 1.8 84.3 325 < 59 < 1100 8	NT 	< 1.7 89.4 107 < 56 < 1000 8.1	< 1.9 80.1 146 < 62 < 1200 6.8	< 1.7 90.3 226 < 55 < 1100 6.8	NT 	< 1.8 81.8 1980 < 61 4600 6.8	< 2.0 76.5 685 < 65 < 1300 7.2

- General Notes:**
- Generally, only analytes detected in at least one sample are reported here. For a complete list of analytes see the laboratory data sheets.
 - "<" = The analyte was not detected at a concentration above the specified limit.
 - MCP = 310 CMR 40.0000 Massachusetts Contingency Plan with revisions effective April
 - Method 1 Standards (e.g., S1/GW2) are cited from the MCP.
 - ft bgs = feet below ground surface.
 - mg/kg = milligrams per kilogram.
 - NS = No MCP standard has been established for this analyte.
 - SHA = Sanborn Head & Associates.
 - Results in bold exceed the applicable Method 1 S1/GW2 Standard.
 - ND = The analyte was not detected above the laboratory reporting limit.
See the laboratory data sheets for the laboratory reporting limit.
 - NT = Not tested.

Qualifying Note:
J The reported result is below the laboratory reporting limit and is estimated.

2. Groundwater

2.1. Figure: Groundwater Chemical Testing Results

2.2. Chemical Testing Results - Groundwater



- LEGEND**
- MONITORING WELL WITH SOIL GAS SAMPLE PORT INSTALLED BY GEI JANUARY 2007 (Approximate Location)
 - SH-1, SH-MW-1 MONITORING WELL INSTALLED BY SANBORN HEAD ASSOCIATES, 2002
 - GEO-1 MONITORING WELL INSTALLED BY GEOSIGHT, JUNE 2004
 - SB1, GEO-7 SOIL BORING ADVANCED BY GEOSIGHT, AUGUST 2004
 - MW101 MONITORING WELL INSTALLED BY GEI CONSULTANTS, INC., MAY 2006
 - MW-1 MONITORING WELL INSTALLED PREVIOUSLY, DATE UNKNOWN
 - CATCH BASIN
 - CONC. CONCRETE
 - DRAIN MANHOLE
 - ELECTRIC HANDHOLE
 - ELECTRIC MANHOLE
 - GAS GATE
 - MISC. GATE
 - HYDRANT
 - MANHOLE
 - MONITORING WELL
 - SEWER MANHOLE
 - UTILITY POLE
 - UTILITY POLE W/LIGHT
 - WATER GATE
 - FIRE ALARM BOX
 - CHAIN LINK FENCE

- CHEMICAL DATA TABLE NOTES**
- CONCENTRATIONS ARE REPORTED IN mg/L.
 - CONCENTRATIONS OF PCE AND TCE ARE SHOWN FOR EACH WELL. CONCENTRATIONS OF OTHER ANALYTES ARE SHOWN ONLY WHERE THEY EXCEEDED THE MCP GW2 METHOD 1 STANDARD.
 - MCP = MASSACHUSETTS CONTINGENCY PLAN 310 CMR 40.0000 WITH REVISIONS EFFECTIVE APRIL 3, 2006.
 - PCE = TETRACHLOROETHYLENE
 - PCE,1,1,2 = TETRACHLOROETHYLENE,1,1,2-
 - TCE = TRICHLOROETHYLENE
 - DCE,1,1,- = DICHLOROETHENE,1,1,-
 - DCE CIS,1,1,- = DICHLOROETHENE,1,1,CIS-
 - TCA,1,1,1,- = TRICHLOROTHANE,1,1,1,-
 - DCA,1,2 = DICHLOROETHANE,1,2-
 - VALUES IN BOLD EXCEED THE APPLICABLE MCP GW-2 METHOD 1 STANDARD.
 - SAMPLES COLLECTED IN JULY 2002 WERE COLLECTED BY SANBORN HEAD ASSOCIATES.
 - SAMPLES COLLECTED IN AUGUST 2004 WERE COLLECTED BY GEOSIGHT.
 - SAMPLES COLLECTED IN MAY AND OCTOBER 2006 WERE COLLECTED BY GEI CONSULTANTS, INC.
 - DRY* INDICATES THAT THE WATER COLUMN IN THE WELL WAS INSUFFICIENT TO OBTAIN A SAMPLE FOR CHEMICAL TESTING.
 - VALUES IN PARENTHESES REPRESENT THE SCREENED INTERVAL OF THE WELL IN FEET BELOW GROUND SURFACE.

- GENERAL NOTES**
- HORIZONTAL CONTROL FOR THIS PLAN WAS ESTABLISHED BY GPS AND IS BASED ON THE NORTH AMERICAN DATUM OF 1983.
 - VERTICAL CONTROL FOR THIS PLAN WAS ESTABLISHED BY GPS AND IS BASED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988.
 - STREET AND PROPERTY LINES BASED ON SOMERVILLE ASSESSORS MAPS AND ARE BEST FIT RELATIVE TO THE LOCATION OF THE 50 TUFTS ST. BUILDING.
 - MONITORING WELL LOCATIONS AND ELEVATIONS WERE ESTABLISHED BY AN ON THE GROUND SURVEY BY BSC GROUP, INC. ON MAY 31, 2006. PVC AND GROUND ELEVATIONS WERE ESTABLISHED BY TRIGONOMETRIC METHODS USING A TOTAL STATION.



Table 2
Chemical Testing Results - Groundwater Samples
50 Tufts Street
Somerville, MA

Sample Location: Well Screen Interval (ft bgs): Sample Date: Collected by:			SH-1 9-14 8/9/04 GeoInsight	SH-3 8-13 8/9/04 GeoInsight	SH-4 11-16 5/25/06 GEI	SH-MW1 10-30				SH-MW2 10-25					SH-MW3 10-24				MW-1 unknown			
						7/8/02 SHA	5/23/06 GEI	10/4/06 GEI	1/16/07 GEI	7/8/02 SHA	8/16/04 GeoInsight	5/23/06 GEI	10/4/06 GEI	1/16/07 GEI	7/8/02 SHA	5/23/06 GEI	10/4/06 GEI	1/17/07 GEI	7/1/02 SHA	8/9/04 GeoInsight	5/23/06 GEI	1/17/07 GEI
Analyte	Method	Units																				
Volatile Organic Compounds (VOCs)	8260B	ug/L	< 4000	< 2000	30	< 2500	< 5	< 5	< 5	< 250	< 2000	< 5	< 5	< 5	< 2500	< 5	< 5	< 500	< 50000	< 40000	40	36.1
Acetone			< 200	< 100	< 0.5	< 250	< 0.5	0.61	< 0.5	< 25	< 100	< 0.5	< 0.5	< 0.5	< 250	< 0.5	< 0.5	< 50	< 5000	< 2000	2	< 0.5
Benzene			< 200	< 100	< 1	< 250	< 1	< 1	< 1	< 25	< 100	< 1	< 1	< 1	< 250	< 1	< 1	< 100	< 5000	< 2000	< 1	< 1
Bromoform			< 200	< 100	< 1	< 250	< 1	< 1	< 1	< 25	< 100	< 1	< 1	< 1	< 250	< 1	< 1	< 100	< 5000	< 2000	19	22.4
Carbon tetrachloride			< 200	< 100	< 5	< 2500	< 5	< 5	< 5	< 250	< 500	< 5	< 5	< 5	< 2500	< 5	< 5	< 500	< 50000	< 10000	< 5	< 5
Carbon disulfide			< 1000	< 500	< 1	< 250	< 1	0.52 J	< 1	< 25	< 100	< 1	< 1	< 1	< 250	< 1	< 1	< 100	< 5000	< 2000	1.1	1.2
Chlorobenzene			< 200	< 100	< 2	< 500	< 2	< 2	< 2	< 50	< 200	< 2	< 2	< 2	< 500	< 2	< 2	< 100	< 10000	< 4000	< 2	< 2
Chloroethane			< 200	< 100	13.3	< 380	2.1	4.6	1.7	< 38	< 100	< 1	< 1	< 1	< 380	0.88 J	0.81 J	< 100	< 7500	< 2000	3.7	1.6
Chloroform			< 200	< 100	< 2	< 1200	< 2	< 2	< 2	< 120	< 200	< 2	< 2	< 2	< 1200	< 2	< 2	< 200	< 25000	< 4000	< 2	14.6
Chloromethane			< 400	< 200	< 200	< 380	11.4	12	8.5	< 38	< 100	1	20.9	5.7	< 380	21.6	36.5	< 100	< 7500	< 2000	59.8	59.9
Dichloroethane, 1,1-			< 200	< 100	15.9	< 380	< 1	< 1	< 1	< 25	< 100	< 1	< 1	< 1	< 250	< 1	< 2	< 200	< 5000	< 2000	4	< 2
Dichloroethane, 1,2-			< 200	< 100	103	< 250	< 1	< 1	< 1	< 25	< 100	10.1	45	9.8	< 250	91	84.4	< 100	< 5000	< 2000	11500	1260
Dichloroethene, 1,1-			< 200	< 100	556	< 250	11.7	19.3	9	< 25	< 100	3.9	45.7	14.7	< 250	37.2	102	< 100	< 5000	< 2000	24.3	7.7
Dichloroethene, cis-1,2-			< 200	< 100	16.6	< 250	2.1	7.3	11.2	< 25	< 100	< 1	< 1	< 1	< 250	< 1	1.1	< 100	< 7500	< 2000	< 1	< 1
Dichloroethene, trans-1,2-			< 200	< 100	< 1	< 380	< 1	< 1	< 1	< 38	< 100	< 1	< 1	< 1	< 380	< 1	< 1	< 100	< 7500	< 2000	4.5	< 2
Dichloropropane, 1,2-			< 200	< 100	< 2	< 880	< 2	< 2	< 2	< 88	< 100	< 2	< 2	< 2	< 880	< 2	< 2	< 200	< 18000	< 2000	< 25	< 25
Dioxane, 1,4-			NT	NT	57700	NT	< 25	< 25 R	< 25	NT	NT	< 25	< 25 R	< 25	NT	< 25	< 25 R	< 2500	NT	NT	< 25	< 25
Ethylbenzene			< 200	< 100	< 1	< 250	< 1	< 1	< 1	< 25	< 100	< 1	< 1	< 1	< 250	< 1	< 1	180	< 5000	< 2000	2.8	4.4
Hexanone, 2-			< 2000	< 1000	5.3	< 2500	< 5	< 5	< 5	< 250	< 1000	< 5	< 5	< 5	< 2500	< 5	< 5	< 500	< 50000	< 20000	< 5	< 5
Isopropylbenzene			< 200	< 100	< 5	< 250	< 5	< 5	< 5	< 25	< 100	< 5	< 1	< 1	< 250	< 5	< 5	< 500	< 5000	< 2000	< 5	0.84 J
Methyl tert-butyl ether			< 200	< 100	< 1	< 500	< 1	0.71 J/T	< 1	< 50	< 100	< 1	8.7 T	1.4	< 500	5.1	8.2 T	< 100	< 10000	< 2000	< 1	< 1
Methylene chloride			< 2000	< 1000	12.2	< 2500	< 2	< 2	< 2	< 250	< 1000	< 2	< 2	< 2	< 2500	< 2	< 2	< 200	< 50000	< 20000	< 2	< 2
Naphthalene			< 200	< 100	< 5	< 1200	< 5	< 5	< 5	< 120	< 100	< 5	< 1	< 1	< 1200	< 5	< 5	392 J	< 5000	< 2000	< 5	2.4 J
Propylbenzene, n-			< 200	< 100	< 5	< 250	< 5	< 5	< 5	< 25	< 100	< 5	< 5	< 5	< 250	< 5	< 5	< 500	< 5000	< 2000	0.42 J	1.8 J
Tetrachloroethane, 1,1,1,2-			< 200	< 100	40.4	< 250	< 5	< 5	< 5	< 25	< 100	< 5	< 5	< 5	< 250	< 5	< 5	< 500	< 5000	< 2000	38.1	22.8
Tetrachloroethene			49700	19500	7240	21000	16200	28300	31700 F+	2000	7170	1730	7190	2880 F+	26000	16900	28300	29700	52000	24200	34400	74900
Tert-Amyl-Methyl-Ether			NT	NT	1.9 J	NT	NT	< 2	< 2	NT	NT	< 2	< 2	< 2	NT	< 2	< 2	< 200	NT	NT	< 2	< 2
Toluene			< 200	< 100	1.8	< 380	0.61 J	0.47 J	< 1	< 38	< 100	< 1	< 1	< 1	< 380	< 1	< 1	< 100	< 7500	< 2000	19.6	15.3
Trichloroethane, 1,1,1-			1150	2070	7610	< 250	34.5	69.7 T	31.4	660	1550	158	1330	360	1200	989	1680	806	290000	112000	255000	135000
Trichloroethane, 1,1,2-			< 200	< 100	172	< 380	< 1	< 1	< 1	< 38	< 100	< 1	< 1	< 1	< 380	< 1	< 1	< 100	< 7500	< 2000	85.8	16.2
Trichloroethene			906	1440	7580	< 500	141	317	141	190	572	92.8	486	171	870	482	1030	709	220000	128000	175000	120000
Trimethylbenzene, 1,2,4-			< 200	< 100	< 5	< 1200	< 5	< 5	< 5	< 120	< 100	< 5	< 5	< 5	< 1200	< 5	< 5	306 J	< 25000	< 2000	1.3 J	4.2 J
Trimethylbenzene, 1,3,5-			< 200	< 100	< 5	< 1200	< 5	< 5	< 5	< 120	< 100	< 5	< 5	< 5	< 1200	< 5	< 5	70.2 J	< 25000	< 2000	1.3 J	4.8 J
Vinyl chloride			< 200	< 100	< 1	< 500	< 1	< 1	< 1	< 50	< 100	< 1	< 1	< 1	< 500	< 1	< 1	< 100	< 10000	< 2000	< 1	1.2
Xylene, m,p-			< 400	< 200	< 1	< 250	< 1	< 1	< 1	< 25	< 200	< 1	< 1	< 1	< 250	< 1	< 1	484	< 5000	< 4000	4.8	5.9
Xylene, o-			< 200	< 100	< 1	< 250	< 1	< 1	< 1	< 25	< 100	< 1	< 1	< 1	< 250	< 1	< 1	< 100	< 5000	< 2000	9.2	13.8
Xylene, Total			< 400	< 200	< 1	< 250	< 1	< 1	< 1	< 25	< 200	< 1	< 1	< 1	< 250	< 1	< 1	543	< 5000	< 4000	14	19.7
Total VOCs			51756	23010	81098.4	21000	16403.41	28732.21	31902.8	2850	9292	1995.8	9126.3	3442.6	28070	18526.78	31243.01	33190.2	562000	264200	476235.72	331416.84
Metals	SW846	ug/L	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	< 10	NT	NT	NT	NT
Arsenic																		255				
Iron																						
Other																						
Methane	SW846																		< 10			
Ethane	SW846																		< 10			
Ethene	SW846																		< 10			
Alkalinity, Total as CaCO ₃	EPA 310.1																		208000			
Chloride	EPA 325.3																		362000			
Nitrogen, Nitrate	EPA 353.2																		1900			
Nitrogen, Nitrate + Nitrite	EPA 353.2																		1900			
Nitrogen, Nitrite	EPA 354.1																		30			
Sulfate	EPA 375.4																		62600			
Sulfide	EPA 376.1																		< 2000			
Surfactants, MBAS as LAS	EPA 425.1																		< 100			
Total Organic Carbon	EPA 415.1																		< 1000			

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the laboratory data sheets.
2. * < " = The analyte was not detected at a concentration above the
3. MCP = 310 CMR 40.0000 Massachusetts Contingency Plan with revisions effective April 3, 2006.
4. Method 1 Standards (e.g. GW2) are cited from the MCP.
5. NS = No standard for this analyte.
6. ft bgs = feet below ground surface.
7. ug/L = micrograms per liter.
8. SHA = Sanborn Head & Associates.
9. Results in bold exceed the current applicable Method 1 GW2 standard.
10. FD = Field Duplicate Sample.

Qualifying Note:

- J The reported result is below the laboratory reporting limit and is estimated.
- T The reported value is estimated due to Continuing Calibration Check standard percent difference outside of control limits.
- R The result is rejected due to gross exceedence of minimum response factor criteria.
- E The reported value is estimated; reported from undiluted sample run due to sample non-homogeneity.
- F+ The result has a high bias due to matrix spike recovery above upper control limits.
- F- The result has a low bias due to matrix spike recovery below lower control limits.

Table 2
Chemical Testing Results - Groundwater Samples
50 Tufts Street
Somerville, MA

Sample Location: Well Screen Interval (ft bgs): Sample Date: Collected by:			MW-3 unknown				GEO-1 5-20					GEO-2 5-20				GEO-3 5-20					
Analyte	Method	Units	7/1/02 SHA	8/9/04 GeoInsight	5/23/06 GEI	1/17/07 GEI	8/16/04 GeoInsight	5/23/06 GEI	10/5/06 GEI	1/17/07 GEI	1/17/07 (FD) GEI	8/16/04 GeoInsight	5/23/06 GEI	10/5/06 GEI	1/17/07 GEI	8/16/04 GeoInsight	5/24/06 GEI	5/24/06 (FD) GEI	10/4/06 GEI	10/4/06 (FD) GEI	1/16/07 GEI
Volatile Organic Compounds (VOCs)			8260B	ug/L																	
Acetone			< 2500	< 2000	< 5	< 5	< 400	< 5	< 5	< 5	< 5	487	< 5	< 5	< 25	< 1000	< 5	< 5	< 5	< 5	< 5
Benzene			< 250	< 100	0.37 J	0.71	< 20	< 0.5	< 0.5	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 2.5	< 50	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Bromoform			< 250	< 100	< 1	< 1	< 20	< 1	< 1	< 1	< 1	< 5	< 1	< 1	< 5	< 50	< 1	< 1	< 1	< 1	< 1
Carbon tetrachloride			< 250	< 100	< 1	< 1	< 20	3.6	1.4	2.3	2.3	< 5	< 1	< 1	< 5	< 50	< 1	< 1	< 1	< 1	< 1
Carbon disulfide			< 2500	< 500	< 5	< 5	< 100	< 5	< 5	< 5	< 5	< 25	< 5	< 5	4.5 J	< 250	< 5	< 5	< 5	< 5	< 5
Chlorobenzene			< 250	< 100	< 1	0.52 J	< 20	0.76 J	0.86 J	0.76 J	0.84 J	< 5	< 1	< 1	< 5	< 50	< 1	< 1	< 1	< 1	< 1
Chloroethane			< 500	< 200	< 2	< 2	< 40	< 2	< 2	< 2	< 2	< 10	< 2	< 2	< 10	< 100	< 2	< 2	< 2	< 2	< 2
Chloroform			< 380	< 100	2.1	3.4	< 20	< 1	< 1	0.60 J	0.61 J	< 5	< 1	< 1	< 5	< 50	< 1	< 1	< 1	< 1	< 1
Chloromethane			< 1200	< 200	< 2	< 2	< 40	< 2	3.7	< 2	1.8 J	< 10	< 2	< 2	< 10	< 100	< 2	< 2	< 2	< 2	< 2
Dichloroethane, 1,1-			< 380	< 100	< 1	< 1	< 20	4.3	2.9	5.4	5.6	< 5	2.2	2	< 25	< 50	< 1	< 1	11.6	11.6	2.6
Dichloroethane, 1,2-			< 250	< 100	< 1	< 1	< 20	< 1	< 1	< 1	< 1	< 5	< 1	< 1	< 5	< 50	< 1	< 1	< 1	< 1	< 1
Dichloroethene, 1,1-			< 250	< 100	6.9	5.6	39.8	989	1330 E	247	241	23.2	14.2	26.3	25.2	108	< 1	< 1	59.3	59.1	11.5
Dichloroethene, cis-1,2-			< 250	< 100	< 1	1.9	< 20	4.3	2.3	3.3	< 1	< 5	< 1	1.6	9	< 50	< 1	< 1	2.8	2.6	1.2
Dichloroethene, trans-1,2-			< 380	< 100	< 1	< 1	< 20	< 1	< 1	< 1	< 1	< 5	< 1	< 1	< 5	< 50	< 1	< 1	< 1	< 1	< 1
Dichloropropane, 1,2-			< 880	< 100	< 2	2	< 20	< 2	< 2	< 2	< 2	< 5	< 2	< 2	< 10	< 50	< 2	< 2	< 2	< 2	< 2
Dioxane, 1,4-			NT	NT	< 25	< 25	NT	< 25	< 25 R	< 25	< 25	NT	< 25	< 25 R	< 130	NT	< 25	< 25	< 25 R	< 25 R	< 25 R
Ethylbenzene			< 250	< 100	< 1	< 1	< 20	< 1	< 1	< 1	< 1	< 5	< 1	< 1	3.1 J	< 50	< 1	< 1	< 1	< 1	< 1
Hexanone, 2-			< 2500	< 1000	< 5	< 5	< 200	< 5	< 5	< 5	< 5	< 50	< 5	< 5	< 25	< 500	< 5	< 5	< 5	< 5	< 5
Isopropylbenzene			< 250	< 100	< 5	< 5	< 20	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 25	< 50	< 5	< 5	< 5	< 5	< 5
Methyl tert-butyl ether			< 500	< 100	< 1	< 1	< 20	64.2	5.3 T	2.5	2.7	37.6	79.9	12.8 T	9.8	< 50	< 1	< 1	1.2 T	1.1 T	< 1
Methylene chloride			< 2500	< 1000	< 2	< 2	< 200	< 2	< 2	< 2	< 2	< 50	< 2	< 2	< 10	< 500	< 2	< 5	< 5	< 5	< 5
Naphthalene			< 1200	< 100	< 5	< 5	< 20	< 5	< 5	< 5	< 5	< 5	< 5	< 5	8.3 J	< 50	< 5	< 5	< 5	< 5	< 5
Propylbenzene, n-			< 250	< 100	< 5	< 5	< 20	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 25	< 50	< 5	< 5	< 5	< 5	< 5
Tetrachloroethane, 1,1,1,2-			< 250	< 100	1.9 J	4.4 J	< 20	5.7	3 J	5.7	5.8	< 5	< 5	< 5	< 25	< 50	< 5	< 5	< 5	< 5	< 5
Tetrachloroethene			16000	16200	22100	51900	1880	18600	19500	17300	18000	285	131	693	1420	4020	162	157	2720	2340	529
Tert-Amyl-Methyl-Ether			NT	NT	< 2	< 2	NT	< 2	< 2	< 2	< 2	NT	< 2	< 2	< 10	NT	< 2	< 2	< 2	< 2	< 2
Toluene			< 380	< 100	0.62 J	< 1	< 20	1.2	0.72 J	1.1	0.99	< 5	< 1	< 1	3.4 J	< 50	< 1	< 1	< 1	< 1	< 1
Trichloroethane, 1,1,1-			< 250	< 100	39.1	68.7	1720	19100	9620	13300	14200	490	125	376	867	204	4	4.4	78.2 T	77.2 T	16.2
Trichloroethane, 1,1,2-			< 380	< 100	< 1	< 1	< 20	< 1	< 1	0.94 J	0.99 J	< 5	< 1	< 1	< 5	< 50	< 1	< 1	< 1	< 1	< 1
Trichloroethene			< 250	< 100	86.6	247	898	10000	5530	9090	9660	60	27.3	170	602	507	14.4	14.1	209	207	70.2
Trimethylbenzene, 1,2,4-			< 1200	< 100	< 5	< 5	< 20	< 5	< 5	< 5	< 5	< 5	< 5	< 5	4.7 J	< 50	< 5	< 5	< 5	< 5	< 5
Trimethylbenzene, 1,3,5-			< 1200	< 100	< 5	< 5	< 20	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 25	< 50	< 5	< 5	< 5	< 5	< 5
Vinyl chloride			< 500	< 100	< 1	< 1	< 20	< 1	< 1	< 1	< 1	< 5	< 1	< 1	< 5	< 50	< 1	< 1	< 1	< 1	< 1
Xylene, m,p-			< 250	< 200	< 1	< 1	< 40	< 1	< 1	< 1	< 1	< 10	< 1	< 1	11.2	< 100	< 1	< 1	< 1	< 1	< 1
Xylene, o-			< 250	< 100	< 1	< 1	< 20	< 1	< 1	< 1	< 1	< 5	< 1	< 1	< 5	< 50	< 1	< 1	< 1	< 1	< 1
Xylene, Total			< 250	< 200	< 1	< 1	< 40	< 1	< 1	< 1	< 1	< 10	< 1	< 1	14.2	< 100	< 1	< 1	< 1	< 1	< 1
Total VOCs			16000	16200	22237.59	52227.31	4537.8	48773.06	34842.18	39959.6	42122.63	1382.8	379.6	1281.7	2982.4	4839	180.4	175.5	3082.1	2698.6	630.7
Metals	SW846	ug/L	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT							
Arsenic															< 10						
Iron															< 100						
Other			NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT							
Methane	SW846														< 10						
Ethane	SW846														< 10						
Ethene	SW846														< 10						
Alkalinity, Total as CaCO3	EPA 310.1														104000						
Chloride	EPA 325.3														1310000						
Nitrogen, Nitrate	EPA 353.2														7000						
Nitrogen, Nitrate + Nitrite	EPA 353.2														7000						
Nitrogen, Nitrite	EPA 354.1														< 10						
Sulfate	EPA 375.4														88000						
Sulfide	EPA 376.1														< 2000						
Surfactants, MBAS as LAS	EPA 425.1														< 100						
Total Organic Carbon	EPA 415.1														< 1000						

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the laboratory data sheets.
2. * < * = The analyte was not detected at a concentration above the
3. MCP = 310 CMR 40.0000 Massachusetts Contingency Plan with revisions effective April 3, 2006.
4. Method 1 Standards (e.g. GW2) are cited from the MCP.
5. NS = No standard for this analyte.
6. ft bgs = feet below ground surface.
7. ug/L = micrograms per liter.
8. SHA = Sanborn Head & Associates.
9. Results in bold exceed the current applicable Method 1 GW2 standard.
10. FD = Field Duplicate Sample.

Qualifying Note:

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- T The reported value is estimated due to Continuing Calibration Check st percent difference outside of control limits.
- R The result is rejected due to gross excedence of minimum response fac
- E The reported value is estimated; reported from undiluted sample run du sample non-homogeneity.
- F+ The result has a high bias due to matrix spike recovery above upper co
- F- The result has a low bias due to matrix spike recovery below lower cont

Table 2
Chemical Testing Results - Groundwater Samples
50 Tufts Street
Somerville, MA

Sample Location: Well Screen Interval (ft bgs):			GEO-4 4-19				GEO-5 5-20				GEO-6 5-20					MW101 9-19			MW102 6-16		
Sample Date: Collected by:			8/16/04 Geolnsight	5/24/06 GEI	10/4/06 GEI	1/16/07 GEI	8/16/04 Geolnsight	5/24/06 GEI	10/4/06 GEI	1/16/07 GEI	8/16/04 Geolnsight	5/24/06 GEI	10/4/06 GEI	1/16/07 GEI	1/16/07 (FD) GEI	5/24/06 GEI	10/5/06 GEI	1/17/07 GEI	5/24/06 GEI	10/5/06 GEI	1/16/07 GEI
Analyte	Method	Units																			
Volatile Organic Compounds (VOCs)			8260B	ug/L																	
Acetone			< 2000	< 5	< 5	< 100	< 2000	< 5	< 5	< 250	< 200	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Benzene			< 100	< 0.5	< 0.5	< 10	< 100	< 0.5	< 0.5	< 25	< 10	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Bromoform			< 200	< 1	< 1	< 20	< 100	< 1	< 1	< 50	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Carbon tetrachloride			< 100	< 1	< 1	< 20	< 100	< 1	< 1	< 50	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Carbon disulfide ,			< 500	< 5	< 5	< 100	< 500	< 5	< 5	< 250	< 50	< 5	< 5	< 5	0.81 J	< 5	< 5	< 5	< 5	< 5	< 5
Chlorobenzene			< 100	< 1	< 1	< 20	< 100	< 1	< 1	< 50	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Chloroethane			< 200	< 2	< 2	< 40	< 200	< 2	< 2	< 100	< 20	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Chloroform			< 100	< 1	2.5	< 20	< 100	< 1	0.62 J	< 50	< 10	< 1	< 1	< 1	< 1	1.8	< 1	< 1	< 1	< 1	< 1
Chloromethane			< 200	< 2	< 2	< 40	< 200	< 2	< 2	< 100	< 20	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Dichloroethane,1,1-			< 100	2.7	7.1	< 20	< 100	3	9.7	< 50	< 10	2	4.4	1.7	1.6	< 1	< 1	< 1	< 1	0.88 J	< 1
Dichloroethane,1,2-			< 100	< 1	< 1	< 20	< 100	< 1	< 1	< 50	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Dichloroethene,1,1-			< 100	6.1	17.8	< 20	< 100	8.9	32.7	< 50	< 10	4.6	11	4.4	3.2	8.7	21.1	14.1	6.3	50.2	30
Dichloroethene, cis-1,2-			< 100	6.3	16.7	< 20	< 100	12.5	35.2	< 50	14.8	9.1	15.4	7.7	6.9	< 1	< 1	1.3	< 1	< 1	< 1
Dichloroethene, trans-1,2-			< 100	< 1	< 1	< 20	< 100	< 1	< 1	< 50	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Dichloropropane, 1,2-			< 100	< 2	< 2	< 40	< 100	< 2	< 2	< 100	< 10	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Dioxane, 1,4-			NT	< 25	< 25 R	< 500	NT	< 25	< 25 R	< 1300	NT	< 25	< 25 R	< 25	< 25	< 25	< 25 R	< 25	< 25	< 25 R	< 25
Ethylbenzene			< 100	< 1	< 1	< 20	< 100	< 1	< 1	< 50	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Hexanone,2-			< 1000	< 5	< 5	< 100	< 1000	< 5	< 5	< 250	< 100	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Isopropylbenzene			< 100	< 5	< 5	< 100	< 100	< 5	< 5	< 250	< 10	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Methyl tert-butyl ether			< 100	< 1	1.5 T	< 20	< 100	1.3	3.3 T	< 50	< 10	1.3	1.9 T	1.2	1.2	< 1	< 1	< 1	< 1	4.5 T	2.7
Methylene chloride			< 1000	< 2	< 2	< 40	< 1000	< 2	< 2	< 100	< 100	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Naphthalene			< 100	< 5	< 5	< 100	< 100	< 5	< 5	< 250	< 10	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Propylbenzene, n-			< 100	< 5	< 5	< 100	< 100	< 5	< 5	< 250	< 10	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Tetrachloroethane, 1,1,1,2-			< 100	< 5	0.84 J	< 100	< 100	< 5	< 5	< 250	< 10	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Tetrachloroethene			12900	6690	24100	16700	14400	2440	12900	254 F+	782	675	1980	632	594 F+	163	171	192	200	898	692
Tert-Amyl-Methyl-Ether			NT	< 2	< 2	< 40	NT	< 2	< 2	< 100	NT	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Toluene			< 100	< 1	< 1	< 20	< 100	< 1	< 1	< 50	< 10	< 1	< 1	< 1	< 1	< 1	< 1	0.38 J	< 1	< 1	< 1
Trichloroethane,1,1,1-			1170	113	321 T	113	646	246	652	< 50	27.8	42.5	77.2 T	33.7	25.3	110	146	131	< 1	65.7 T	32.6
Trichloroethane, 1,1,2-			< 100	< 1	< 1	< 20	< 100	< 1	< 1	< 50	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Trichloroethene			720	86.8	235	129	404	146	446	< 50	122	78.8	131	75.3	56.5	50.5	30.2	38.4	15.6	89.1	57
Trimethylbenzene, 1,2,4-			< 100	< 5	< 5	< 100	< 100	< 5	< 5	< 250	< 10	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Trimethylbenzene, 1,3,5-			< 100	< 5	< 5	< 100	< 100	< 5	< 5	< 250	< 10	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Vinyl chloride			< 100	< 1	< 1	< 20	< 100	< 1	< 1	< 50	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Xylene, m,p-			< 200	< 1	< 1	< 20	< 200	< 1	< 1	< 50	< 20	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Xylene, o-			< 100	< 1	< 1	< 20	< 100	< 1	< 1	< 50	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Xylene, Total			< 200	< 1	< 1	< 20	< 200	< 1	< 1	< 50	< 20	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Total VOCs			14790	6904.9	24702.44	16942	15450	2857.7	14079.52	254	946.6	813.3	2220.9	756	690.81	334	368.3	377.18	221.9	1108.38	814.3
Metals	SW846	ug/L	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	< 10	< 10	NT	NT	NT	NT	NT	NT
Arsenic														< 100	< 100						
Iron																					
Other		ug/L	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT						NT	NT	NT
Methane	SW846													< 10	< 10						
Ethane	SW846													< 10	< 10						
Ethene	SW846													< 10	< 10						
Alkalinity, Total as CaCO3	EPA 310.1													134000	133000						
Chloride	EPA 325.3													825000	825000						
Nitrogen, Nitrate	EPA 353.2													3500	3500						
Nitrogen, Nitrate + Nitrite	EPA 353.2													3500	3500						
Nitrogen, Nitrite	EPA 354.1													< 10	< 10						
Sulfate	EPA 375.4													45800	45500						
Sulfide	EPA 376.1													< 2000	< 2000						
Surfactants, MBAS as LAS	EPA 425.1													< 100	< 100						
Total Organic Carbon	EPA 415.1													< 1000	< 1000						

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the laboratory data sheets.
2. * < * = The analyte was not detected at a concentration above the
3. MCP = 310 CMR 40.0000 Massachusetts Contingency Plan with revisions effective April 3, 2006.
4. Method 1 Standards (e.g. GW2) are cited from the MCP.
5. NS = No standard for this analyte.
6. ft bgs = feet below ground surface.
7. ug/L = micrograms per liter.
8. SHA = Sanborn Head & Associates.
9. Results in bold exceed the current applicable Method 1 GW2 standard.
10. FD = Field Duplicate Sample.

Qualifying Note:

- J The reported result is below the laboratory reporting limit and is estimated.
- T The reported value is estimated due to Continuing Calibration Check st; percent difference outside of control limits.
- R The result is rejected due to gross exceedence of minimum response fac
- E The reported value is estimated; reported from undiluted sample run du sample non-homogeneity.
- F+ The result has a high bias due to matrix spike recovery above upper coi
- F- The result has a low bias due to matrix spike recovery below lower cont

Table 2
Chemical Testing Results - Groundwater Samples
50 Tufts Street
Somerville, MA

Sample Location: Well Screen Interval (ft bgs): Sample Date: Collected by:			MW103 6-16					MW104 5-15			MW105 19-29			MW106 9-19	MW107 2-12	MW108 2-12	MW109 3-13	MW110 3-13	MW111 4-14	
Analyte	Method	Units	5/24/06 GEI	8/7/06 GEI	10/5/06 GEI	1/16/07 GEI	1/18/07 GEI	5/23/06 GEI	10/5/06 GEI	1/16/07 GEI	5/24/06 GEI	10/5/06 GEI	1/17/07 GEI	1/18/07 GEI	1/18/07 GEI	1/18/07 GEI	1/18/07 GEI	1/18/07 GEI	1/18/07 GEI	
Volatile Organic Compounds (VOCs)			8260B	ug/L																
Acetone			< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 50	
Benzene			< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	0.6	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 50	
Bromoform			< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	0.75 J	< 1	< 1	< 1	< 10	
Carbon tetrachloride			< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 10	
Carbon disulfide			< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 50	
Chlorobenzene			< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 10	
Chloroethane			< 2	< 2	< 2	< 2	< 2	2.7	10.3	6.1	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 20	
Chloroform			< 1	< 1	< 1	0.65 J	0.62 J	< 1	< 1	< 1	< 1	< 1	< 1	< 1	1.1	< 1	< 1	< 1	< 10	
Chloromethane			< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 20	
Dichloroethane, 1,1-			27.2	3.7	13	11.5	10.1	33	98.9	57.1	< 1	< 1	< 1	< 1	4.6	< 1	1.2	< 1	30.9	
Dichloroethane, 1,2-			< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 10	
Dichloroethene, 1,1-			13.4	2	6.5	4.3	4.3	3.3	9.4	2.9	< 1	< 1	< 1	< 1	4.4	3.2	< 1	< 1	17.6	
Dichloroethene, cis-1,2-			< 1	3	2.5	< 1	< 1	198	435	244	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	22.6	
Dichloroethene, trans-1,2-			< 1	< 1	< 1	< 1	< 1	2.2	9.3	6.2	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 10	
Dichloropropane, 1,2-			< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 20	
Dioxane, 1,4-			< 25	< 25	< 25 R	< 25	< 25	< 25	< 25 R	< 25	< 25	< 25 R	< 25	< 25	< 25	< 25	< 25	< 25	< 250	
Ethylbenzene			< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 10	
Hexanone, 2-			< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 50	
Isopropylbenzene			< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 50	
Methyl tert-butyl ether			< 1	< 1	0.65 J/T	< 1	< 1	< 1	10 T	1	< 1	< 1	< 1	< 1	12.2	< 1	< 1	3.5	< 1	< 10
Methylene chloride			< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 20	
Naphthalene			< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 50	
Propylbenzene, n-			< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 50	
Tetrachloroethane, 1,1,1,2-			< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 50	
Tetrachloroethene			2600	592	1510	1200 F+	1250 F-	60.4	160	29.3	7.8	0.69 J	0.67 J	1 F-	< 1	< 1	< 1	178 F-	0.89 J/F-	13700 F-
Tert-Amyl-Methyl-Ether			< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 20	
Toluene			< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 10	
Trichloroethane, 1,1,1-			34	4.4	14.4 T	17.6	21	21	138	23.2	< 1	< 1	< 1	15.3	< 1	< 1	< 1	0.77 J	< 1	142
Trichloroethane, 1,1,2-			< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 10	
Trichloroethene			109	24	60.4	37	38	63.4	110	49.1	< 1	3.4	3.2	3.7	< 1	< 1	< 1	4.5	< 1	150
Trimethylbenzene, 1,2,4-			< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 50	
Trimethylbenzene, 1,3,5-			< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 50	
Vinyl chloride			< 1	< 1	< 1	< 1	< 1	23.7	36.4	47.4	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 10	
Xylene, m,p-			< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 10	
Xylene, o-			< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 10	
Xylene; Total			< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 10	
Total VOCs			2783.6	629.1	1607.45	1271.05	74.02	407.7	1007.9	466.3	7.8	4.09	3.87	36.7	8.55	ND	9.97	0.89	363.1	
Metals			SW846	ug/L	NT	NT	NT	NT	NT	NT	NT	NT	NT		< 10	< 10	< 10	NT	2.9	NT
Arsenic							< 10								319	6160	< 10		84000	
Iron							< 100													
Other			SW846	ug/L	NT	NT	NT	NT	NT	NT	NT	NT	NT		< 10	4.13 J	0.18	NT	< 10	NT
Methane	SW846						< 10								< 10	< 10	< 10		< 10	
Ethane	SW846						< 10								< 10	< 10	< 10		< 10	
Ethene	SW846						< 10								< 10	< 10	< 10		< 10	
Alkalinity, Total as CaCO3	EPA 310.1						53500								83100	174000	71100		122000	
Chloride	EPA 325.3						675000								1870000	100000	235000		142000	
Nitrogen, Nitrate	EPA 353.2						8900								12800	< 110	< 110		2300	
Nitrogen, Nitrate + Nitrite	EPA 353.2						8900								12900	100	< 100		2400	
Nitrogen, Nitrite	EPA 354.1						16								83	< 10	< 10		54	
Sulfate	EPA 375.4						65700								86800	33400	28100		47700	
Sulfide	EPA 376.1						< 2000								< 2000	< 2000	< 2000		< 2000	
Surfactants, MBAS as LAS	EPA 425.1						< 100								< 100	150	< 100		< 100	
Total Organic Carbon	EPA 415.1						1700								1300	12200	1300		5700	

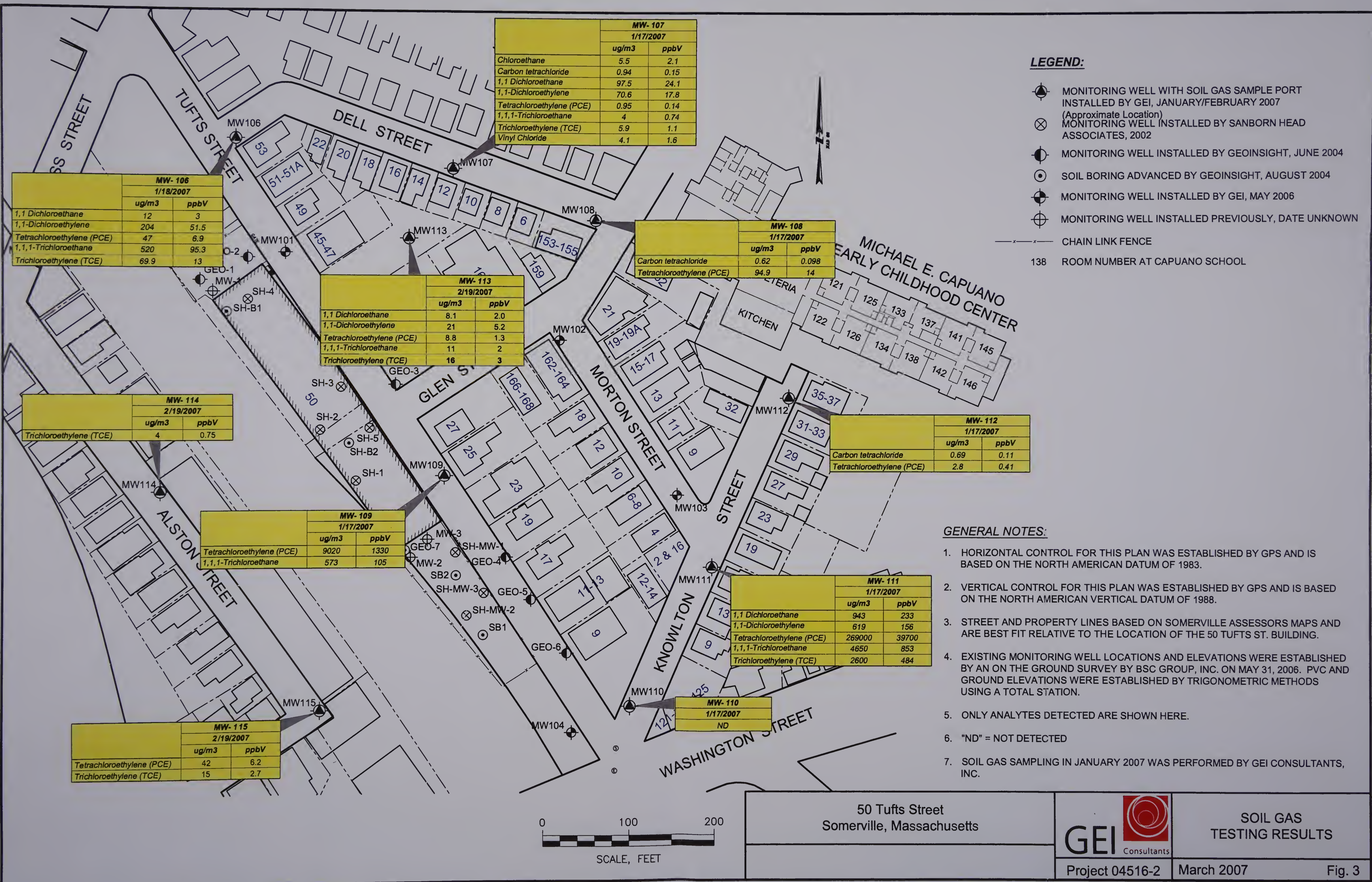
- General Notes:**
1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the laboratory data sheets.
 2. "< " = The analyte was not detected at a concentration above the
 3. MCP = 310 CMR 40.0000 Massachusetts Contingency Plan with revisions effective April 3, 2006.
 4. Method 1 Standards (e.g. GW2) are cited from the MCP.
 5. NS = No standard for this analyte.
 6. ft bgs = feet below ground surface.
 7. ug/L = micrograms per liter.
 8. SHA = Sanborn Head & Associates.
 9. Results in bold exceed the current applicable Method 1 GW2 standard.
 10. FD = Field Duplicate Sample.

- Qualifying Note:**
- J The reported result is below the laboratory reporting limit and is estimated.
- T The reported value is estimated due to Continuing Calibration Check st percent difference outside of control limits.
- R The result is rejected due to gross exceedence of minimum response fac
- E The reported value is estimated; reported from undiluted sample run du sample non-homogeneity.
- F+ The result has a high bias due to matrix spike recovery above upper co
- F- The result has a low bias due to matrix spike recovery below lower cont

3. Soil Gas

3.1. Figure: Soil Gas Chemical Testing Results

3.2. Chemical Testing Results – Soil Gas



LEGEND:

- MONITORING WELL WITH SOIL GAS SAMPLE PORT INSTALLED BY GEI, JANUARY/FEBRUARY 2007 (Approximate Location)
- MONITORING WELL INSTALLED BY SANBORN HEAD ASSOCIATES, 2002
- MONITORING WELL INSTALLED BY GEOINSIGHT, JUNE 2004
- SOIL BORING ADVANCED BY GEOINSIGHT, AUGUST 2004
- MONITORING WELL INSTALLED BY GEI, MAY 2006
- MONITORING WELL INSTALLED PREVIOUSLY, DATE UNKNOWN
- CHAIN LINK FENCE
- 138 ROOM NUMBER AT CAPUANO SCHOOL

GENERAL NOTES:

- HORIZONTAL CONTROL FOR THIS PLAN WAS ESTABLISHED BY GPS AND IS BASED ON THE NORTH AMERICAN DATUM OF 1983.
- VERTICAL CONTROL FOR THIS PLAN WAS ESTABLISHED BY GPS AND IS BASED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988.
- STREET AND PROPERTY LINES BASED ON SOMERVILLE ASSESSORS MAPS AND ARE BEST FIT RELATIVE TO THE LOCATION OF THE 50 TUFTS ST. BUILDING.
- EXISTING MONITORING WELL LOCATIONS AND ELEVATIONS WERE ESTABLISHED BY AN ON THE GROUND SURVEY BY BSC GROUP, INC. ON MAY 31, 2006. PVC AND GROUND ELEVATIONS WERE ESTABLISHED BY TRIGONOMETRIC METHODS USING A TOTAL STATION.
- ONLY ANALYTES DETECTED ARE SHOWN HERE.
- "ND" = NOT DETECTED
- SOIL GAS SAMPLING IN JANUARY 2007 WAS PERFORMED BY GEI CONSULTANTS, INC.

50 Tufts Street
Somerville, Massachusetts



SOIL GAS
TESTING RESULTS

Project 04516-2

March 2007

Fig. 3

Table 3
Chemical Testing Results Soil Gas Samples
50 Tufts Street
Somerville, MA

Sample Location: Sample Name:		MW106 045162-MW106		MW106 045162-MW900 (Field Duplicate of MW106)		MW107 045162-MW107		MW108 045162-MW108		MW109 045162-MW109		MW110 045162-MW110		MW111 045162-MW111		MW112 045162-MW117		MW113 045162-MW1113		MW114 045162-MW114		MW115 045162-MW115	
Sample Date: Collected By:		1/18/07 GEI		1/18/07 GEI		1/17/07 GEI		1/17/07 GEI		1/17/07 GEI		1/17/07 GEI		1/17/07 GEI		1/17/07 GEI		2/19/07 GEI		2/19/07 GEI		2/19/07 GEI	
Units:		ug/m³	ppbV	ug/m³	ppbV	ug/m³	ppbV	ug/m³	ppbV	ug/m³	ppbV	ug/m³	ppbV	ug/m³	ppbV	ug/m³	ppbV	ug/m³	ppbV	ug/m³	ppbV	ug/m³	ppbV
Analyte	Method																						
Volatile Organic Compounds (VOCs)		TO-15																					
Chloroethane		<2.6	<1.0	<1.1	<0.40	5.5	2.1	<0.53	<0.20	<53	<20	<0.53	<0.20	<530	<200	<0.53	<0.20	< 5.3	< 2.0	< 5.3	< 2.0	< 5.3	< 2.0
Carbon tetrachloride		<6.3	<1.0	<2.5	<0.40	0.94 J	0.15 J	0.62 J	0.098 J	<130	<20	<1.3	<0.20	<1300	<200	0.69J	0.11 J	< 13	< 2.0	< 31	< 5.0	< 13	< 2.0
1,1 Dichloroethane		12	3	3.7	0.92	97.5	24.1	<0.81	<0.20	<81	<20	<0.81	<0.20	943	233	<0.81	<0.20	8.1	2.0	< 8.1	< 2	< 8.1	< 2
1,1-Dichloroethylene		204	51.5	58.7	14.8	70.6	17.8	<0.79	<0.20	<79	<20	<0.79	<0.20	619 J	156 J	<0.79	<0.20	21	5.2	< 7.9	< 2	< 7.9	< 2
Tetrachloroethylene (PCE)		47	6.9	16	2.4	0.95 J	0.14 J	94.9	14	9020	1330	<1.4	<0.20	269000	39700	2.8	0.41	8.8 J	1.3 J	< 14	< 2	42	6.2
1,1,1-Trichloroethane		520	95.3	170	31.2	4	0.74	<1.1	<0.20	573	105	<1.1	<0.20	4650	853	<1.1	<0.20	11	2	< 11	< 2	< 11	< 2
Trichloroethylene (TCE)		69.9	13	22	4.1	5.9	1.1	<1.1	<0.20	<110	<20	<1.1	<0.20	2600	484	<1.1	<0.20	16	3	4	0.75	15	2.7
Vinyl Chloride		<2.6	<1.0	<1.0	<0.40	4.1	1.6	<0.51	<0.20	<51	<20	<0.51	<0.20	<510	<200	<0.51	<0.20	< 5.1	< 2.0	< 5.1	< 2.0	< 5.1	< 2.0

- General Notes:**
- Analytes detected in at least one sample are reported here. For a complete list of analytes see the laboratory data sheets.
 - ug/m³ = micrograms per cubic meter.
 - ppbV = parts per billion by volume.
 - "<" = The analyte was not detected at a concentration above the specified laboratory reporting limit.

- Qualifying Notes:**
- C+ The result has a high bias due to surrogate recovery above upper control limits.
- J The reported result is below the laboratory reporting limit and is estimated.
- L The reported result is estimated because the calculated relative percent difference (RPD) between a sample and the matrix duplicate was above the quality control limit specified in the Quality Assurance Project Plan (QAPP).
- M The reporting limit is elevated due to a detection of the analyte in a method blank sample, trip blank sample, or both.
- S- The result has a low bias due to internal standard recovery above upper control limits.

4. Indoor Air

- 4.1. Indoor Air Chemical Testing Results (selected homes on Tufts Street)**
- 4.2. Indoor Air Chemical Testing Results (selected homes on Dell, Knowlton, and 60 Tufts Street)**
- 4.3. Indoor Air Chemical Testing Results (selected homes and buildings on Franklin and Alston Street)**

Table 4.1
Chemical Testing Results - Indoor Air Samples
Selected Homes on Tufts Street
Somerville, MA

Sample Location:		9 Tufts St., basement										9 Tufts St., 1st floor		9 Tufts St., 1st floor, left apt.		9 Tufts St., 1st floor, right apt.		9 Tufts St., 1st floor, left apt.		9 Tufts St., 1st floor, right apt.		9 Tufts St., 1st floor, left apt.		9 Tufts St., 1st floor, right apt.		9 Tufts St., 1st floor, left apt.		9 Tufts St., 1st floor, right apt.	
Sample Name:		IA-6		045160-9Tufts-BR		045160-9Tufts-BR		045162-9Tufts-BR		045162-9Tufts-BR		IA-5		045160-9Tufts-1L		045160-9Tufts-1R		045160-9Tufts-1L		045160-9Tufts-1R		045162-9Tufts-1L		045162-9Tufts-1R		045162-9Tufts-1L		045162-9Tufts-1R	
Sample Date:		2/23/05		3/23/06		7/24/06		10/2/06		12/15/06		2/23/05		3/23/06		3/23/06		7/24/06		7/24/06		10/2/06		10/2/06		12/15/06		12/15/06	
Collected By:		Shaw		GEI		GEI		GEI		GEI		Shaw		GEI		GEI		GEI		GEI		GEI		GEI		GEI		GEI	
Units:		ug/m ³		ppbV		ug/m ³		ppbV		ug/m ³		ppbV		ug/m ³		ppbV		ug/m ³		ppbV		ug/m ³		ppbV		ug/m ³		ppbV	
Analyte	Method																												
Volatile Organic Compounds (VOCs)	TO-15																												
Carbon tetrachloride		< 1.3	< 0.20	< 1.3	< 0.20	< 1.3	< 0.20	< 1.3	< 0.20	0.75 J	0.12 J	< 1.3	< 0.20	< 1.3	< 0.20	< 1.3	< 0.20	< 1.3	< 0.20	< 1.3	< 0.20	< 1.3	< 0.20	< 1.3	< 0.20	0.62 J	0.099 J	0.59 J	0.093 J
Chloroethane		< 0.53	< 0.20	< 0.53	< 0.20	< 0.53	< 0.20	< 0.53	< 0.20	< 0.53	< 0.20	< 0.53	< 0.20	< 0.53	< 0.20	< 0.53	< 0.20	< 0.53	< 0.20	< 0.53	< 0.20	< 0.53	< 0.20	< 0.53	< 0.20	< 0.53	< 0.20	< 0.53	< 0.20
Chloroform		0.54 J	0.11 J	1.3	0.26	1.2	0.24	NT	NT	NT	NT	1.2	0.25	0.78 J	0.16 J	< 0.98	< 0.20	0.88 J	0.18 J	2.3	0.47	NT	NT	NT	NT	NT	NT	NT	NT
Chloromethane		0.91	0.44	1.1 L	0.53 L	0.95	0.46	NT	NT	NT	NT	1.0	0.49	1.4 L	0.69 L	1.4 L	0.69 L	1	0.49	1.1	0.55	NT	NT	NT	NT	NT	NT	NT	NT
1,2-Dichloroethane		< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20
Methylene chloride		0.56 J	0.16 J	< 1.9 M	< 0.55 M	11	3.1	NT	NT	NT	NT	0.59 J	0.17 J	< 1.8 M	< 0.52 M	< 1.3 M	< 0.36 M	< 4.2 M	< 1.2 M	< 6.6 M	< 1.9 M	NT	NT	NT	NT	NT	NT	NT	NT
Tetrachloroethylene (PCE)		1.3 J	0.19 J	2.4	0.35	3.1	0.45	16	2.4	2.2 C+	0.32 C+	1.8	0.27	< 1.4	< 0.20	0.95 J	0.14 J	1.2 J	0.18 J	2	0.29	3.5	0.52	6.2	0.91	1.9	0.28	0.64 J	0.095 J
1,1,1-Trichloroethane		< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20
Trichloroethylene (TCE)		< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20

- General Notes:**
- Analytes detected in at least one sample are reported here. For a complete list of analytes see the laboratory data sheets.
 - ug/m³ = micrograms per cubic meter.
 - ppbV = parts per billion by volume.
 - "<" = The analyte was not detected at a concentration above the specified laboratory reporting limit.
 - GEI = GEI Consultants, Inc.
 - Shaw = Shaw Environmental, Inc.
 - apt. = apartment

- Qualifying Notes:**
- C+ The result has a high bias due to surrogate recovery above upper control limits
 - J The reported result is below the laboratory reporting limit and is estimated.
 - L The reported result is estimated because the calculated relative percent difference (RPD) between a sample and the matrix duplicate was above the quality control limit specified in the Quality Assurance Project Plan (QAPP).
 - M The reporting limit is elevated due to a detection of the analyte in a method blank sample, trip blank sample, or both.
 - S The result is estimated due to Internal Standard recovery outside of the control limits.

Table 4.1
Chemical Testing Results - Indoor Air Samples
Selected Homes on Tufts Street
Somerville, MA

Sample Location:		11 Tufts St., basement												11 Tufts St., 1st floor										17 Tufts St., basement																	
		IA-2		IA-2D (duplicate)		045160- 11/13Tufts-B		045160- 11/13Tufts-B		045162- 11/13Tufts-B		045162- 11/13Tufts-B		IA-1		045160- 11/13Tufts-1		045160- 11/13Tufts-1		045162- 11/13Tufts-1		045162- 11/13Tufts-1		IA-11		045160- 17Tufts-B		045160- 17Tufts-C (duplicate)		045162- 17Tufts-B		045162- 17Tufts-C (duplicate)		045162- 17Tufts-B		045162- 17Tufts-C (duplicate)					
Sample Name:		2/23/05 Shaw		2/23/05 Shaw		3/24/06 GEI		6/29/06 GEI		9/28/06 GEI		12/15/06 GEI		2/23/05 Shaw		3/24/06 GEI		6/29/06 GEI		9/28/06 GEI		12/15/06 GEI		3/24/05 Shaw		3/24/06 GEI		3/24/06 GEI		10/2/06 GEI		10/2/06 GEI		12/18/06 GEI		12/18/06 GEI					
Sample Date: Collected By:		2/23/05 Shaw		2/23/05 Shaw		3/24/06 GEI		6/29/06 GEI		9/28/06 GEI		12/15/06 GEI		2/23/05 Shaw		3/24/06 GEI		6/29/06 GEI		9/28/06 GEI		12/15/06 GEI		3/24/05 Shaw		3/24/06 GEI		3/24/06 GEI		10/2/06 GEI		10/2/06 GEI		12/18/06 GEI		12/18/06 GEI					
Units:		ug/m ³		ppbV		ug/m ³		ppbV		ug/m ³		ppbV		ug/m ³		ppbV		ug/m ³		ppbV		ug/m ³		ppbV		ug/m ³		ppbV		ug/m ³		ppbV		ug/m ³		ppbV					
Analyte	Method																																								
Volatile Organic Compounds (VOCs)		TO-15																																							
Carbon tetrachloride				< 1.3	< 0.20	< 1.3	< 0.20	< 1.3	< 0.20	0.69 J	0.11 J	< 1.3	< 0.20	0.69 J	0.11 J	< 1.3	< 0.20	< 1.3	< 0.20	0.69 J	0.11 J	< 1.3	< 0.20	0.62 J	0.099 J	< 1.3	< 0.20	< 1.3	< 0.20	< 1.3	< 0.20	< 1.3	< 0.20	< 1.3	< 0.20	0.52 J	0.083 J	< 1.3	< 0.20		
Chloroethane				< 0.53	< 0.20	< 0.53	< 0.20	< 0.53	< 0.20	< 0.53	< 0.20	< 0.53	< 0.20	< 0.53	< 0.20	< 0.53	< 0.20	< 0.53	< 0.20	< 0.53	< 0.20	< 0.53	< 0.20	< 0.53	< 0.20	< 0.53	< 0.20	< 0.53	< 0.20	< 0.53	< 0.20	< 0.53	< 0.20	< 0.53	< 0.20	< 0.53	< 0.20	< 0.53	< 0.20		
Chloroform				< 0.98	< 0.20	< 0.98	< 0.20	< 0.98	< 0.20	< 0.98	< 0.20	NT	NT	NT	NT	2.8	0.57	< 0.98	< 0.20	1.5	0.30	NT	NT	NT	NT	1.1	0.23	< 0.98	< 0.20	< 0.98	< 0.20	< 0.98	< 0.20	NT	NT	NT	NT	NT	NT	NT	NT
Chloromethane				0.81	0.39	0.74	0.36	1.4 L	0.68 L	1.7	0.80	NT	NT	NT	NT	0.99	0.48	1.4 L	0.7 L	2.7	1.3	NT	NT	NT	NT	0.97	0.47	1.2 L	0.58 L	1.4 L	0.69 L	NT	NT	NT	NT	NT	NT	NT	NT		
1,2-Dichloroethane				< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	0.85	0.21	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20		
Methylene chloride				1.0	0.29	0.90	0.26	< 4.5 M	< 1.3 M	< 5.2 M	< 1.5 M	NT	NT	NT	NT	0.80	0.23	< 1.2 M	< 0.34 M	< 2.7 M	< 0.77 M	NT	NT	NT	NT	1.5	0.43	59.1 L	17 L	57.3 L	16.5 L	NT	NT	NT	NT	NT	NT	NT	NT		
Tetrachloroethylene (PCE)				1.8	0.26	1.9	0.28	< 1.4	< 0.20	2.4	0.36	0.88 J	0.13 J	2.2	0.33	1.0 J	0.15 J	< 1.4	< 0.20	1.8	0.27	1.5	0.22	< 1.4	< 0.20	8.8	1.3	1.3 J	0.19 J	1.4	0.21	6.1	0.90	6.0	0.89	2	0.3	< 1.4	< 0.20		
1,1,1-Trichloroethane				< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	0.71 J	0.13 J	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20		
Trichloroethylene (TCE)				< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	0.91 J	0.17 J	< 1.1	< 0.20	0.70 J	0.13 J	7.0	1.3	7.0	1.3	0.7 J	0.13 J	< 1.1	< 0.20		

- General Notes:**
- Analytes detected in at least one sample are reported here.
For a complete list of analytes see the laboratory data sheets.
 - ug/m³ = micrograms per cubic meter.
 - ppbV = parts per billion by volume.
 - "<" = The analyte was not detected at a concentration above the specified laboratory reporting limit.
 - GEI = GEI Consultants, Inc.
 - Shaw = Shaw Environmental, Inc.
 - apt. = apartment

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- C+ The result has a high bias due to surrogate recovery above upper control limits
 - J The reported result is below the laboratory reporting limit and is estimated.
 - L The reported result is estimated because the calculated relative percent difference (RPD) between a sample and the matrix duplicate was above the quality control limit specified in the Quality Assurance Project Plan (QAPP).
 - M The reporting limit is elevated due to a detection of the analyte in a method blank sample, trip blank sample, or both.
 - S The result is estimated due to Internal Standard recovery outside of the control limits.

Table 4.1
Chemical Testing Results - Indoor Air Samples
Selected Homes on Tufts Street
Somerville, MA

Sample Location:		23 Tufts St., basement												23 Tufts St., 1st floor												25 Tufts St., basement									
Sample Name:		IA-8		045160-23Tufts-B		045160-23Tufts-B		045160-23Tufts-B		045162-23Tufts-B		045162-23Tufts-B		IA-7		045160-23Tufts-1		045160-23Tufts-1		045160-23Tufts-1		045162-23Tufts-1		045162-23Tufts-1		IA-4		045160-25Tufts-B		045160-25Tufts-B		045162-25Tufts-B		045162-25Tufts-B	
Sample Date: Collected By:		2/23/05 Shaw		3/24/06 GEI		6/28/06 GEI		8/3/06 GEI		10/2/06 GEI		12/18/06 GEI		2/23/05 Shaw		3/24/06 GEI		6/28/06 GEI		8/3/06 GEI		10/2/06 GEI		12/18/06 GEI		2/23/05 Shaw		3/23/06 GEI		8/1/06 GEI		10/2/06 GEI		12/15/06 GEI	
Units:		ug/m ³	ppbV	ug/m ³	ppbV	ug/m ³	ppbV	ug/m ³	ppbV	ug/m ³	ppbV	ug/m ³	ppbV	ug/m ³	ppbV	ug/m ³	ppbV	ug/m ³	ppbV	ug/m ³	ppbV	ug/m ³	ppbV	ug/m ³	ppbV	ug/m ³	ppbV	ug/m ³	ppbV	ug/m ³	ppbV	ug/m ³	ppbV	ug/m ³	ppbV
Analyte	Method																																		
Volatile Organic Compounds (VOCs)	TO-15																																		
Carbon tetrachloride		< 1.3	< 0.20	< 1.3	< 0.20	< 1.3	< 0.20	0.69 J	0.11 J	< 1.3	< 0.20	0.58 J	0.092 J	< 1.3	< 0.20	< 1.3	< 0.20	0.94 J	0.15 J	0.69 J	0.11 J	< 1.3	< 0.20	0.69 J	0.11 J	< 1.3	< 0.20	< 1.3	< 0.20	< 1.3	< 0.20	< 1.3	< 0.20	0.56 J	0.089 J
Chloroethane		< 0.53	< 0.20	< 0.53	< 0.20	< 0.53	< 0.20	< 0.53	< 0.20	< 0.53	< 0.20	< 0.53	< 0.20	< 0.53	< 0.20	< 0.53	< 0.20	< 0.53	< 0.20	< 0.53	< 0.20	< 0.53	< 0.20	< 0.53	< 0.20	< 0.53	< 0.20	< 0.53	< 0.20	< 0.53	< 0.20	< 0.53	< 0.20	< 0.53	< 0.20
Chloroform		0.88 J	0.18 J	< 0.98	< 0.20	3.7	0.76	NT	NT	NT	NT	NT	NT	0.63 J	0.13 J	< 0.98	< 0.20	13	2.7	NT	NT	NT	NT	NT	NT	< 0.98	< 0.20	< 0.98	< 0.20	NT	NT	NT	NT	NT	NT
Chloromethane		1.1	0.54	1.6 L	0.79 L	1.9	0.91	NT	NT	NT	NT	NT	NT	0.97	0.47	1.7 L	0.82 L	1.6	0.78	NT	NT	NT	NT	NT	NT	0.74	0.36	1.1 L	0.52 L	NT	NT	NT	NT	NT	NT
1,2-Dichloroethane		< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20
Methylene chloride		0.49 J	0.14 J	< 2.0 M	< 0.57 M	< 2.4 M	< 0.7 M	NT	NT	NT	NT	NT	NT	0.52 J	0.15 J	< 2.7 M	< 0.77 M	396 L	114 L	NT	NT	NT	NT	NT	NT	0.49 J	0.14 J	< 1.6 M	< 0.47 M	NT	NT	NT	NT	NT	NT
Tetrachloroethylene (PCE)		2.3	0.34	2.8	0.42	125	18.5	10	1.5	6.8	1.0	46	6.8	1.6	0.23	< 1.4	< 0.20	94.9	14.0	9.5	1.4	4.1	0.60	54	8	1.6	0.23	3.2	0.47	3.9	0.57	4.2	0.62	6.6	0.97
1,1,1-Trichloroethane		< 1.1	< 0.20	< 1.1	< 0.20	1.5	0.28	0.60 J	0.11 J	< 1.1	< 0.20	0.71 J	0.13 J	< 1.1	< 0.20	< 1.1	< 0.20	1.0 J	0.19 J	< 1.1	< 0.20	< 1.1	< 0.20	0.51 J	0.093 J	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20
Trichloroethylene (TCE)		< 1.1	< 0.20	< 1.1	< 0.20	1.0 J	0.19 J	< 1.1	< 0.20	< 1.1	< 0.20	0.5 J	0.093 J	< 1.1	< 0.20	< 1.1	< 0.20	0.64 J	0.12 J	< 1.1	< 0.20	< 1.1	< 0.20	0.54 J	0.1 J	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20

- General Notes:**
1. Analytes detected in at least one sample are reported here.
For a complete list of analytes see the laboratory data sheets.
 2. ug/m³ = micrograms per cubic meter.
 3. ppbV = parts per billion by volume.
 4. "<" = The analyte was not detected at a concentration above the specified laboratory reporting limit.
 5. GEI = GEI Consultants, Inc.
 6. Shaw = Shaw Environmental, Inc.
 7. apt. = apartment

- Qualifying Notes:**
- C+ The result has a high bias due to surrogate recovery above upper control limits
 - J The reported result is below the laboratory reporting limit and is estimated.
 - L The reported result is estimated because the calculated relative percent difference (RPD) between a sample and the matrix duplicate was above the quality control limit specified in the Quality Assurance Project Plan (QAPP).
 - M The reporting limit is elevated due to a detection of the analyte in a method blank sample, trip blank sample, or both.
 - S The result is estimated due to Internal Standard recovery outside of the control limits.

Table 4.1
Chemical Testing Results - Indoor Air Samples
Selected Homes on Tufts Street
Somerville, MA

Sample Location:		25 Tufts St., 1st floor										27 Tufts St., basement										27 Tufts St., 1st floor													
		IA-3		045160-25Tufts-1		045160-25Tufts-1		045162-25Tufts-1		045162-25Tufts-1		IA-10		045160-27Tufts-B		045160-27Tufts-B		045160-27Tufts-B		045162-27Tufts-B		045162-27Tufts-B		IA-9		045160-27Tufts-1		045160-27Tufts-1		045160-27Tufts-1		045162-27Tufts-1		045162-27Tufts-1	
		Sample Name:		2/23/05 Shaw		3/23/06 GEI		8/1/06 GEI		10/2/06 GEI		12/15/06 GEI		2/23/05 Shaw		3/23/06 GEI		6/28/06 GEI		8/3/06 GEI		9/28/06 GEI		12/18/06 GEI		2/23/05 Shaw		3/23/06 GEI		6/28/06 GEI		8/3/06 GEI		9/28/06 GEI	
Sample Date:		2/23/05 Shaw		3/23/06 GEI		8/1/06 GEI		10/2/06 GEI		12/15/06 GEI		2/23/05 Shaw		3/23/06 GEI		6/28/06 GEI		8/3/06 GEI		9/28/06 GEI		12/18/06 GEI		2/23/05 Shaw		3/23/06 GEI		6/28/06 GEI		8/3/06 GEI		9/28/06 GEI		12/18/06 GEI	
Collected By:		Shaw		GEI		GEI		GEI		GEI		Shaw		GEI		GEI		GEI		GEI		GEI		Shaw		GEI		GEI		GEI		GEI		GEI	
Units:		ug/m ³	ppbV	ug/m ³	ppbV	ug/m ³	ppbV	ug/m ³	ppbV	ug/m ³	ppbV	ug/m ³	ppbV	ug/m ³	ppbV	ug/m ³	ppbV	ug/m ³	ppbV	ug/m ³	ppbV	ug/m ³	ppbV	ug/m ³	ppbV	ug/m ³	ppbV	ug/m ³	ppbV	ug/m ³	ppbV	ug/m ³	ppbV	ug/m ³	ppbV
Analyte	Method																																		
Volatile Organic Compounds (VOCs)		TO-15																																	
Carbon tetrachloride		< 1.3	< 0.20	< 1.3	< 0.20	< 1.3	< 0.20	< 1.3	< 0.20	0.63 J	0.10 J	< 1.3	< 0.20	< 1.3	< 0.20	0.69 J	0.11 J	< 1.3	< 0.20	< 1.3	< 0.20	0.75 J/S	0.12 J/S	< 1.3	< 0.20	< 1.3	< 0.20	< 1.3	< 0.20	< 1.3	< 0.2	< 1.3	< 0.20	0.096 J/C-	
Chloroethane		< 0.53	< 0.20	< 0.53	< 0.20	< 0.53	< 0.20	< 0.53	< 0.20	< 0.53	< 0.20	< 0.53	< 0.20	< 0.53	< 0.20	< 0.53	< 0.20	< 0.53	< 0.20	< 0.53	< 0.20	1.8	0.7	< 0.53	< 0.20	< 0.53	< 0.20	< 0.53	< 0.20	< 0.53	< 0.20	< 0.53	< 0.20	< 0.20	
Chloroform		2.0	0.4	< 0.98	< 0.20	NT	NT	NT	NT	NT	NT	< 0.98	< 0.20	< 0.98	< 0.20	< 0.98	< 0.20	NT	NT	NT	NT	NT	NT	1.2	0.59	110 L	53.5 L	1.6	0.79	NT	NT	NT	NT	NT	
Chloromethane		0.95	0.46	1.1 L	0.54 L	NT	NT	NT	NT	NT	NT	0.6	0.29	2.9 L	1.4 L	1.3	0.65	NT	NT	NT	NT	NT	NT	1.2	0.59	110 L	53.5 L	1.6	0.79	NT	NT	NT	NT	NT	
1,2-Dichloroethane		< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.20	
Methylene chloride		0.35 J	0.1 J	< 1.9 M	< 0.54 M	NT	NT	NT	NT	NT	NT	0.49 J	0.14 J	< 4.2 M	< 1.2 M	< 2.1 M	< 0.6 M	NT	NT	NT	NT	NT	NT	0.52 J	0.15 J	< 2.0 M	< 0.59 M	< 2.2 M	< 0.63 M	NT	NT	NT	NT	NT	
Tetrachloroethylene (PCE)		< 1.4	< 0.20	1.7	0.25	2	0.29	< 1.4	< 0.20	1.7	0.25	< 1.4	< 0.20	< 1.4	< 0.20	117	17.3	1.6	0.23	38	5.6	37 S	5.5 S	< 1.4	< 0.20	< 1.4	< 0.20	3.8	0.56	0.81 J	0.12 J	12	1.8	4.9 C+	
1,1,1-Trichloroethane		< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	1.0 J	0.19 J	< 1.1	< 0.20	0.55 J	0.10 J	0.38 J/S	0.069 J/S	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	
Trichloroethylene (TCE)		< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	0.45 J/S	0.083 J/S	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	

- General Notes:**
- 1. Analytes detected in at least one sample are reported here.
For a complete list of analytes see the laboratory data sheets.
 - 2. ug/m³ = micrograms per cubic meter.
ppbV = parts per billion by volume.
 - 3. "<" = The analyte was not detected at a concentration above the specified laboratory reporting limit.
 - 4. GEI = GEI Consultants, Inc.
 - 5. Shaw = Shaw Environmental, Inc.
 - 6. apt. = apartment

- Qualifying Notes:**
- C+ The result has a high bias due to surrogate recovery above upper control limits
 - J The reported result is below the laboratory reporting limit and is estimated.
 - L The reported result is estimated because the calculated relative percent difference (RPD) between a sample and the matrix duplicate was above the quality control limit specified in the Quality Assurance Project Plan (QAPP).
 - M The reporting limit is elevated due to a detection of the analyte in a method blank sample, trip blank sample, or both.
 - S The result is estimated due to Internal Standard recovery outside of the control limits.

Table 4.2
Chemical Testing Results - Indoor Air Samples
Selected Homes (Dell, Knowlton and 60 Tufts Street)
Somerville, MA

Sample Location:		6 Dell Street, Basement		6 Dell Street, First Floor		9 Dell Street, Basement				9 Dell Street, First Floor		10 Dell Street, Basement		10 Dell Street, First Floor		14 Dell Street, Basement		14 Dell Street, First Floor	
Sample Name:		045162- 6Dell-B		045162- 6Dell-1		045162- 9Dell-B		045162- 9Dell-C (duplicate)		045162- 9Dell-1		045162- 10Dell-B		045162- 10Dell-1		045162- 14Dell-B		045162- 14Dell-1	
Sample Date: Collected By:		1/23/07 GEI		1/23/07 GEI		1/22/07 GEI		1/22/07 GEI		1/22/07 GEI		1/22/07 GEI		1/22/07 GEI		1/22/07 GEI		1/22/07 GEI	
Units:		ug/m ³	ppbV	ug/m ³	ppbV	ug/m ³	ppbV	ug/m ³	ppbV	ug/m ³	ppbV	ug/m ³	ppbV	ug/m ³	ppbV	ug/m ³	ppbV	ug/m ³	ppbV
Analyte	Method																		
Volatile Organic Compounds (VOCs)	TO-15																		
Carbon tetrachloride		0.69 J	0.11 J	0.60 J	0.095 J	0.69 J	0.11 J	< 1.3	< 0.20	0.69 J	0.11 J	0.63 J	0.10 J	< 1.3	< 0.20	0.82 J	0.13 J	0.82 J	0.13 J
1,1-Dichloroethane		< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20
1,1-Dichloroethylene		< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20
cis-1,2-Dichloroethylene		< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20
Tetrachloroethylene (PCE)		< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20
1,1,1-Trichloroethane		< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	1.1	0.2	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20
Trichloroethylene (TCE)		< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20

- General Notes**
- Analytes detected in at least one sample are reported here. For a complete list of analytes see the laboratory data sheets.
 - ug/m³ = micrograms per cubic meter.
 - ppbV = parts per billion by volume.
 - "<" = The analyte was not detected at a concentration above the specified laboratory reporting limit.

Qualifying Notes

J The reported result is below the laboratory reporting limit and is estimated.

Table 4.2
Chemical Testing Results - Indoor Air Samples
Selected Homes (Dell, Knowlton and 60 Tufts Street)
Somerville, MA

Sample Location:		16 Dell Street, Basement		16 Dell Street, First Floor		22 Dell Street, Basement		22 Dell Street, First Floor		33 Knowlton Street, Basement		33 Knowlton Street, First Floor		37 Knowlton Street, Basement		60 Tufts Street Unit 4, Basement		60 Tufts Street Unit 4, First Floor	
Sample Name:		045162- 16Dell-B		045162- 16Dell-1		045162- 22Dell-B		045162- 22Dell-1		045162- 33Knowlton-B		045162- 33Knowlton-1		045162- 37Knowlton-B		045162- 60Tufts-Unit4B		045162- 60Tufts-Unit4	
Sample Date: Collected By:		1/22/07 GEI		1/22/07 GEI		1/22/07 GEI		1/22/07 GEI		1/22/07 GEI		1/22/07 GEI		1/23/07 GEI		1/23/07 GEI		1/23/07 GEI	
Units:		ug/m ³	ppbV	ug/m ³	ppbV	ug/m ³	ppbV	ug/m ³	ppbV	ug/m ³	ppbV	ug/m ³	ppbV	ug/m ³	ppbV	ug/m ³	ppbV	ug/m ³	ppbV
Analyte	Method																		
Volatiles Organic Compounds (VOCs)	TO-15																		
Carbon tetrachloride		0.63 J	0.10 J	0.75 J	0.12 J	< 1.3	< 0.20	< 1.3	< 0.20	< 1.3	< 0.20	< 1.3	< 0.20	0.69 J	0.11 J	0.63 J	0.10 J	0.75 J	0.12 J
1,1-Dichloroethane		< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	7.3	1.8	< 0.81	< 0.20	< 0.81	< 0.20
1,1-Dichloroethylene		< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	6.7	1.7	< 0.79	< 0.20	< 0.79	< 0.20
cis-1,2-Dichloroethylene		< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	3.4	0.86	< 0.79	< 0.20	< 0.79	< 0.20
Tetrachloroethylene (PCE)		< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	3	0.44	< 1.4	< 0.20	163	24	4.4	0.65	5.8	0.85
1,1,1-Trichloroethane		< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	2.0	0.37	14	2.6	11	2.1
Trichloroethylene (TCE)		< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	20	3.8	< 1.1	< 0.20	< 1.1	< 0.20

- General Notes**
- Analytes detected in at least one sample are reported here. For a complete list of analytes see the laboratory data sheets.
 - ug/m³ = micrograms per cubic meter.
 - ppbV = parts per billion by volume.
 - "<" = The analyte was not detected at a concentration above the specified laboratory reporting limit.

Qualifying Notes

J The reported result is below the laboratory reporting limit and is estimated.

Table 4.3

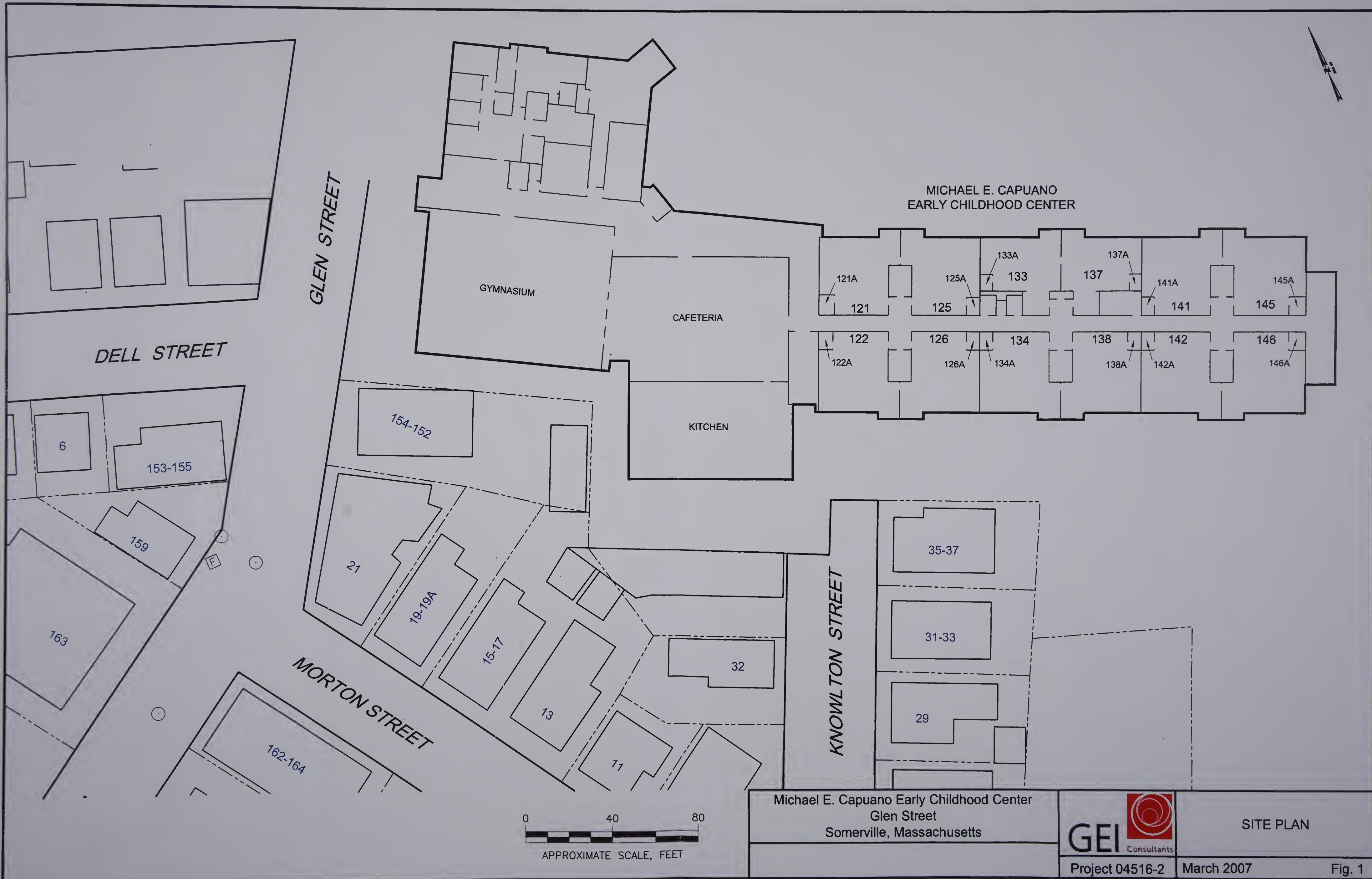
Chemical Testing Results - Indoor Air Samples
Selected Homes and Buildings on Franklin and Alston Streets
Somerville, MA

Sample Location:		93 Franklin Street, Basement	93 Franklin Street, First Floor	32 Alston Street	40 Alston Street
Sample Name:		045162- 93 Franklin-B	045162- 93 Franklin-1	045162- 32 Alston-1	045162- 40 Alston-1
Sample Date: Collected By:		2/14/07 GEI	2/14/07 GEI	2/14/07 GEI	2/14/07 GEI
Analyte Volatile Organic Compounds (VOCs)	Method	ug/m ³		ug/m ³	ug/m ³
	TO-15	ppbV		ppbV	ppbV
	Carbon tetrachloride	< 1.3	< 0.20	< 1.3	< 0.20
	1,1-Dichloroethane	< 0.81	< 0.20	< 0.81	< 0.20
	1,1-Dichloroethylene	< 0.79	< 0.20	< 0.79	< 0.20
	cis-1,2-Dichloroethylene	< 0.79	< 0.20	< 0.79	< 0.20
	Tetrachloroethylene (PCE)	3.5	0.52	7.5	4.3
1,1,1-Trichloroethane	< 1.1	< 0.20	< 1.1	< 1.1	
Trichloroethylene (TCE)	< 1.1	< 0.20	< 1.1	< 1.1	

5. Capuano Early Childhood Center

5.1. Figure of Capuano Early Childhood Center

5.2. Capuano Early Childhood Center-Indoor Air Chemical Testing Results




Michael E. Capuano Early Childhood Center Glen Street Somerville, Massachusetts		SITE PLAN
	Project 04516-2	March 2007 Fig. 1

Table 5
Chemical Testing Results - Indoor and Outdoor Air Samples
Michael E. Capuano Early Childhood Center, 150 Glen Street
Somerville, Massachusetts

Sample Location: Sample Name: Sample Date: Collected By: Units:		Outside of School by Room 126 Window						Outside of School by Day Care Window						Cafetorium	
		150 Glen-0-1A		150 Glen-O-1B*		150 Glen-0-1A		150 Glen-0-2A		150 Glen-O-2B*		150 Glen-0-2A		150 Glen-Caf	
		12/27/2006 GEI		12/28/2007 GEI		1//6/07 GEI		12/27/2006 GEI		12/28/2007 GEI		1//6/07 GEI		1/6/2007 GEI	
		ug/m ³	ppbV	ug/m ³	ppbV	ug/m ³	ppbV	ug/m ³	ppbV	ug/m ³	ppbV	ug/m ³	ppbV	ug/m ³	ppbV
Analyte	Method														
Volatile Organic Compounds (VOCs)	TO-15														
Carbon tetrachloride		< 1.3	< 0.20	< 1.3	< 0.20	0.52 JS	0.083 JS	1.1 J	0.17 J	< 1.3	< 0.20	0.52 JS	0.082 JS	0.49 JS	0.078 JS
1,1-Dichloroethane		< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20
1,1-Dichloroethene		< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20
1,2-Dichloroethane		< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20
cis, 1,2-Dichloroethene		< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20
Tetrachloroethylene (PCE)		< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	0.88 JS	0.13 JS
1,1,1-Trichloroethane		< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20
Trichloroethylene (TCE)		< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20

- General Notes**
1. Analytes detected in at least one sample are reported here.
For a complete list of analytes see the laboratory data sheets.
 2. ug/m³ = micrograms per cubic meter.
 3. ppbV = parts per billion by volume.
 4. "<" = The analyte was not detected at a concentration above the specified laboratory reporting limit.
 5. "*" = Accutest mistakenly referred to the sample name with an "8" instead of the"B" it was supposed to be.

- Qualifying Notes**
- J The reported result is below the laboratory reporting limit and is estimated.
 - L The reported result is estimated because the calculated relative percent difference (RPD) between a sample and the matrix duplicate was above the quality control limit
 - M The reporting limit is elevated due to a detection of the analyte in a method blank sample, trip blank sample, or
 - S The result is estimated due to Internal Standard recovery outside of the control limits.

Table 5
Chemical Testing Results - Indoor and Outdoor Air Sample
Michael E. Capuano Early Childhood Center, 150 Glen Street
Somerville, Massachusetts

Sample Location: Sample Name: Sample Date: Collected By: Units:		Room 101C				Room 108				Room 121		Room 122			
		150 Glen Room 101A		150 Glen Room 101B		150-Glen-Room 108A		150-Glen-Room 108B		150-Glen-Room 121		150-Glen-Room 122		150-Glen-Rm 122	
		12/27/2006 GEI		12/28/2006 GEI		12/27/2006 GEI		12/28/2006 GEI		1/6/2007 GEI		1/6/2007 GEI		2/7/2007 GEI	
		ug/m ³	ppbV	ug/m ³	ppbV	ug/m ³	ppbV	ug/m ³	ppbV	ug/m ³	ppbV	ug/m ³	ppbV	ug/m ³	ppbV
Analyte	Method														
Volatile Organic Compounds (VOCs)	TO-15														
Carbon tetrachloride		< 1.3	< 0.20	< 1.3	< 0.20	0.94 J	0.15 J	< 1.3	< 0.20	0.52 JS	0.082 JS	0.51 JS	0.081 JS	0.69 J	0.11 J
1,1-Dichloroethane		< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20
1,1-Dichloroethene		< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20
1,2-Dichloroethane		< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20
cis, 1,2-Dichloroethene		< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20
Tetrachloroethylene (PCE)		< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20
1,1,1-Trichloroethane		< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20
Trichloroethylene (TCE)		< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20

General Notes

- 1. Analytes detected in at least one sample are reported here.
For a complete list of analytes see the laboratory data sheets.
- 2. ug/m³ = micrograms per cubic meter.
- 3. ppbV = parts per billion by volume.
- 4. "<" = The analyte was not detected at a concentration above the specified laboratory reporting limit.
- 5. "*" = Accutest mistakenly referred to the sample name with an "8" instead of the "B" it was supposed to be.

Qualifying Notes

- J The reported result is below the laboratory reporting limit and is estimated.
- L The reported result is estimated because the calculated relative percent difference (RPD) between a sample and the matrix duplicate was above the quality control limit
- M The reporting limit is elevated due to a detection of the analyte in a method blank sample, trip blank sample, or
- S The result is estimated due to Internal Standard recovery outside of the control limits.

Table 5
Chemical Testing Results - Indoor and Outdoor Air Sample
Michael E. Capuano Early Childhood Center, 150 Glen Street
Somerville, Massachusetts

Sample Location: Sample Name: Sample Date: Collected By: Units:		Room 125				Room 126						Room 134				Room 136	
		150 Glen-Room 125A		150 Glen-Room 125B		150 Glen-Room 126		150 Glen-Room 100 (Field Duplicate of 150 Glen-Room 126)		150 Glen-Rm 126		150 Glen-Room 134		150 Glen-Rm 134		150 Glen-Room 136	
		12/27/2006 GEI		12/28/2006 GEI		1/13/2007 GEI		1/13/2007 GEI		2/7/2007 GEI		1/13/2007 GEI		2/7/2007 GEI		1/13/2007 GEI	
		ug/m ³	ppbV	ug/m ³	ppbV	ug/m ³	ppbV	ug/m ³	ppbV	ug/m ³	ppbV	ug/m ³	ppbV	ug/m ³	ppbV	ug/m ³	ppbV
Analyte	Method																
Volatile Organic Compounds (VOCs)		TO-15															
Carbon tetrachloride		1.0 J	0.16 J	< 1.3	< 0.20	0.69 J	0.11 J	0.63 J	0.10 J	0.94 J	0.15 J	0.75 J	0.12 J	0.94 J	0.15 J	0.69 J	0.11 J
1,1-Dichloroethane		< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20
1,1-Dichloroethene		< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20
1,2-Dichloroethane		< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20
cis, 1,2-Dichloroethene		< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20
Tetrachloroethylene (PCE)		< 1.4	< 0.20	< 1.4	< 0.20	0.88 J	0.13 J	0.75 J	0.11 J	< 1.4	< 0.20	3.2	0.47	< 1.4	< 0.20	2.1	0.31
1,1,1-Trichloroethane		< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20
Trichloroethylene (TCE)		< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	0.54 J	0.10 J	< 1.1	< 0.20	< 1.1	< 0.20

- General Notes**
- Analytes detected in at least one sample are reported here.
For a complete list of analytes see the laboratory data sheets.
 - ug/m³ = micrograms per cubic meter.
 - ppbV = parts per billion by volume.
 - "<" = The analyte was not detected at a concentration above the specified laboratory reporting limit.
 - "*" = Accutest mistakenly referred to the sample name with an "8" instead of the"B" it was supposed to be.

- Qualifying Notes**
- J The reported result is below the laboratory reporting limit and is estimated.
 - L The reported result is estimated because the calculated relative percent difference (RPD) between a sample and the matrix duplicate was above the quality control limit
 - M The reporting limit is elevated due to a detection of the analyte in a method blank sample, trip blank sample, or
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Table 5
Chemical Testing Results - Indoor and Outdoor Air Sample
Michael E. Capuano Early Childhood Center, 150 Glen Street
Somerville, Massachusetts

Sample Location: Sample Name: Sample Date: Collected By: Units:		Room 137				Room 138											
		150 Glen-Room 137A		150 Glen-Room 137B		RM138		150 Glen-Room 138		150 Glen-Room 138		150 Glen-Room 138 (Alpha Dupliate of 150 Glen-Room 138)		150 Glen-Rm 138		150 Glen-Rm 139 (Field Duplicate of 150-Glen- Rm 138)	
		1/6/2007 GEI		1/6/2007 GEI		1/2/2007 GEI		1/6/2007 GEI		1/13/2007 GEI		1/13/2007 GEI		2/7/2007 GEI		2/7/2007 GEI	
		ug/m ³	ppbV	ug/m ³	ppbV	ug/m ³	ppbV	ug/m ³	ppbV	ug/m ³	ppbV	ug/m ³	ppbV	ug/m ³	ppbV	ug/m ³	ppbV
Analyte	Method																
Volatile Organic Compounds (VOCs)		TO-15															
Carbon tetrachloride		0.52 JS	0.082 JS	< 1.3	< 0.20	< 1.3	< 0.20	0.49 JS	0.078 JS	0.82 J	0.13 J	< 0.126	< 0.020	0.75 J	0.12 J	0.52 J	0.082 J
1,1-Dichloroethane		< 0.81	< 0.20	< 0.81	< 0.20	0.45 J	0.11 J	0.77 JS	0.19 JS	0.57 J	0.14 J	< 0.081	< 0.020	< 0.81	< 0.20	< 0.81	< 0.20
1,1-Dichloroethene		< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	2.1 S	0.54 S	< 0.79	< 0.20	< 0.079	< 0.020	< 0.79	< 0.20	< 0.79	< 0.20
1,2-Dichloroethane		< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.0819	< 0.020	< 0.81	< 0.20	< 0.81	< 0.20
cis, 1,2-Dichloroethene		< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	0.83 S	0.21 S	< 0.79	< 0.20	< 0.079	< 0.020	< 0.79	< 0.20	< 0.79	< 0.20
Tetrachloroethylene (PCE)		< 1.4	< 0.20	< 1.4	< 0.20	14	2	60 S	8.8 S	20	3	32.6	4.8	< 1.4	< 0.20	< 1.4	< 0.20
1,1,1-Trichloroethane		< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 0.109	< 0.020	< 1.1	< 0.20	< 1.1	< 0.20
Trichloroethylene (TCE)		< 1.1	< 0.20	< 1.1	< 0.20	2.3	0.42	7 S	1.3 S	3.1	0.57	4.26	0.794	< 1.1	< 0.20	< 1.1	< 0.20

- General Notes**
1. Analytes detected in at least one sample are reported here.
For a complete list of analytes see the laboratory data sheets.
 2. ug/m³ = micrograms per cubic meter.
 3. ppbV = parts per billion by volume.
 4. "<" = The analyte was not detected at a concentration above the specified laboratory reporting limit.
 5. "***" = Accutest mistakenly referred to the sample name with an "8" instead of the"B" it was supposed to be.

- Qualifying Notes**
- J The reported result is below the laboratory reporting limit and is estimated.
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Table 5
Chemical Testing Results - Indoor and Outdoor Air Sample
Michael E. Capuano Early Childhood Center, 150 Glen Street
Somerville, Massachusetts

Sample Location: Sample Name: Sample Date: Collected By: Units:		Room 141		Room 142						Room 144				Room 145	
		150 Glen-Room 141		RM142		150 Glen-Room 142		150 Glen-Rm 142		150 Glen-Room 144 (Accutest Duplicate)		150 Glen-Room 144 (Alpha Duplicate)		150 Glen-Room 145	
		1/6/2007 GEI		1/2/2007 GEI		1/6/2007 GEI		2/7/2007 GEI		1/13/2007 GEI		1/13/2007 GEI		1/6/2007 GEI	
		ug/m ³	ppbV	ug/m ³	ppbV	ug/m ³	ppbV	ug/m ³	ppbV	ug/m ³	ppbV	ug/m ³	ppbV	ug/m ³	ppbV
Analyte	Method														
Volatile Organic Compounds (VOCs)	TO-15														
Carbon tetrachloride		0.45 JS	0.071 JS	< 1.3	< 0.20	0.52 JS	0.083 JS	0.82 J	0.13 J	0.88 J	0.14 J	< 3.14	< 0.50	0.45 JS	0.071 JS
1,1-Dichloroethane		< 0.81	< 0.20	1.4	0.35	1.2 S	0.29 S	< 0.81	< 0.20	< 0.81	< 0.20	< 2.02	< 0.50	< 0.81	< 0.20
1,1-Dichloroethene		< 0.79	< 0.20	0.87	0.22	2.5 S	0.63 S	< 0.79	< 0.20	< 0.79	< 0.20	< 1.98	< 0.50	< 0.79	< 0.20
1,2-Dichloroethane		< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 2.02	< 0.50	< 0.81	< 0.20
cis, 1,2-Dichloroethene		< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 1.98	< 0.50	< 0.79	< 0.20
Tetrachloroethylene (PCE)		< 1.4	< 0.20	28	4.1	45 S	6.6 S	< 1.4	< 0.20	4.1	0.61	4.36	0.643	< 1.4	< 0.20
1,1,1-Trichloroethane		< 1.1	< 0.20	< 1.1	< 0.20	0.33 JS	0.061 JS	< 1.1	< 0.20	< 1.1	< 0.20	< 2.72	< 0.50	< 1.1	< 0.20
Trichloroethylene (TCE)		< 1.1	< 0.20	3.7	0.69	5.4 S	1 S	< 1.1	< 0.20	1.3	0.24	< 2.68	< 0.50	< 1.1	< 0.20

General Notes

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Table 5
Chemical Testing Results - Indoor and Outdoor Air Sample
Michael E. Capuano Early Childhood Center, 150 Glen Street
Somerville, Massachusetts

Sample Location: Sample Name: Sample Date: Collected By: Units:		Room 146											
		150-Glen-Room 146A		150-Glen-Room 146B		150-Glen-Room 146C (Field Duplicate of 150-Glen-Room 146B)		RM146		150-Glen-Room 146		150-Glen-Rm 146	
		12/27/2006 GEI		12/28/2006 GEI		12/28/2006 GEI		1/2/2007		1/6/2007 GEI		2/7/2007 GEI	
		ug/m ³	ppbV	ug/m ³	ppbV	ug/m ³	ppbV	ug/m ³	ppbV	ug/m ³	ppbV	ug/m ³	ppbV
Analyte	Method												
Volatile Organic Compounds (VOCs)	TO-15												
Carbon tetrachloride		1.1 J	0.18 J	< 1.3	< 0.20	0.49 J	0.078 J	0.63 J	0.10 J	< 1.3	< 0.20	0.75 J	0.12 J
1,1-Dichloroethane		10	2.5	3.6	0.88	3.3	0.82	0.53 J	0.13 J	0.57 JS	0.14 JS	< 0.81	< 0.20
1,1-Dichloroethene		7.9	2	4	1	3.9	0.99	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20
1,2-Dichloroethane		< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20
cis, 1,2-Dichloroethene		3.3	< 0.83	1.3	0.33	1.2	0.31	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20
Tetrachloroethylene (PCE)		186	27.5	83.4	12.3	85.4	12.6	11	1.6	26 S	3.8 S	< 1.4	< 0.20
1,1,1-Trichloroethane		2.1	0.38	0.82 J	0.15 J	0.71 J	0.13 J	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20
Trichloroethylene (TCE)		37	6.8	10	1.9	11	2.1	1.7	0.32	3 S	0.56 S	< 1.1	< 0.20

General Notes

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